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13. ABSTRACT (Maximum 200 words)
Technology Insertion (TI)/Industrial Process Improvement (IPI) Data Base Documentation Book Volume, for OC-ALC/MATPCC (Electromechanical Unit). This document contains detailed information about layouts equipment and processes for this RCC.

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**TECHNOLOGY INSERTION-ENGINEERING SERVICES
 PROCESS CHARACTERIZATION
 TASK ORDER NO. 1
 (BLOCK II)**

DATABASE DOCUMENTATION BOOK

OC-ALC

MATPCC

**CONTRACT SUMMARY REPORT
 11 SEPTEMBER 1989**

**CONTRACT NO. F33600-88-D-0567
 CDRL SEQUENCE NO. B008**

Available For	
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1.0 IDENTIFICATION OF RCC

RCC MAT/PC has been identified by the SOW of Contract F33600-88-D-0567
for Process Characterization.

^{floor space}
The MATPCC is crowded but sufficient for the work performed. The actuator repair area has several more work stations than currently needed. A large amount of work-in-process (as much as two weeks worth of work) is stored in racks, awaiting repair. The small size of the parts, however, keeps this from being a serious floor space problem.

The lighting is dim, but most workstations are equipped with individual fluorescent lights which alleviate the problem at that station. The bulk of the equipment and fixtures are painted a drab gray or tan. The whole place could use a new coat of paint.

All material handling within the RCC is by hand carry or the use of push carts. There are no conveyors or powered moving equipment. Pick-up of completed parts is performed daily by material handling personnel who pick the parts off tables located on the outside aisles.

Supplies and seldom-used test equipment are stored on racks and shelves scattered around the area. The arrangement appears haphazard but the operators report no problems. The generally high level of seniority among the operators means that everyone knows where everything is kept.

Individual

Operators have a great deal of control over their processes. They pick the parts from the shelves and perform all the required repair actions with a minimum of supervision. When parts must be sent to another RCC, the operators carry their parts to the other location without scheduling or logging the parts out of MATPCC. Each operator remembers what parts he/she has in other areas. No receipts are issued and part ownership/accountability is questionable. Inspection/QC responsibilities rest with the operator who performs the repair work.

The tools and test equipment used are generally old but well-maintained and servicable. Supervisors report very few outages on the test stands. Equipment is calibrated ^{under} the ^{ALC} PME program. but supervisors express some dissatisfaction with the ^{quality} of the calibration on some test stands. One servo assembly which is repaired and calibrated in MATPCC frequently fails when installed in the next higher assembly in another RCC. These situations appear to be very rare however, as the number of ^{MATPCC} repaired items which are rejected by other RCCs (or field units) is extremely low.

A significant problem reported by virtually every operator is the number of unservicable new parts they receive from supply. MATPCC does no receiving inspection and an unservicable part is not found until an operator uses it in a repair operation. The paperwork required to reject a part and the lead time to obtain a ~~replacement~~ part are such that operators frequently repair/rework bad items rather than reject them. There is currently a large "hidden factory" requiring vendor parts in MATPCC. The RCCs management is aware of the problem but not its extent. The workforce has been doing this for so long that they do not see it as a problem. The workforce has developed several excellent procedures for repairing items that should be replaced. (according to Tech order SMR codes) to avoid the problem of bad replacements. This willingness to accept ~~poor~~ quality from a supplier appears to be a serious problem throughout the ALC and is addressed elsewhere as a recommendation for a focus study. If the recipients of parts repaired by MATPCC are following the general principle of reworking poor quality rather than rejecting it, there may be quality problems within MATPCC that have not been identified.

The overall appearance of the MATPCL ~~operation~~ ^{organization} is of an operation running in well-worn grooves. The workers and supervisors have all been here for many years, with little change in processes or equipment. Most procedures are undocumented (or the documentation is obsolete) because everyone has so much experience that they don't feel they need to use/maintain written procedures. Very little attention is paid to gathering reliable data on processes, quality, productivity, etc. which makes improvements difficult to develop or justify. The morale of the workers appears high and most people (supervisory and non-supervisory) report that they think the RCL is doing a good job. Operators take real pride in their work and are keenly aware that they have final responsibility for the quality of their products.

2.0 GENERAL INFORMATION

MAT PCC IS A RESOURCE CONTROL CENTER WITHIN THE ACCESSORIES DIVISION AT OC ~~SM-ALC~~. MAT PCC IS LOCATED IN BLDG 3001. THE PRIMARY WORKLOAD IS MISTR, CONSISTING OF ELECTRO-MECHANICAL UNITS SUCH AS ACTUATORS, FUEL FLOW TRANSMITTERS, CLUTCH PACTS, TORQUE MOTORS, CABLE & HARNESS ASSEMBLIES.

THE WORKLOAD HAS VARIED IN THE PAST TWO OR THREE YEARS. UP TO 15% OF THE ^{work force} ~~MANPOWER~~ HAS BEEN LOANED OUT ~~PART OF THE TIME~~ ^{at some} TO ANOTHER REC AT SOME TIME.

DATA DOCUMENTATION BOOK

2.1 FACILITY LAYOUT DRAWINGS

The layout drawings do not reflect the current layout of MATPCC. The layout will be changed again in three months as the RCC restructures its organization to accept additional personnel and KC-135 cable workload. Up-to-date drawings were not provided to MDMSC. The layouts provided by the ALC are included in the Database Documentation Book.

2.2 EQUIPMENT

MATPCC's equipment consists primarily of test stands and other testing instruments. Most of them have been in use for 15 to 25 years, but they are still reliable. The first MATPCC test stands in Building 3108 used to test fuel flow transmitters are scheduled for replacement by two new test stands. The operator stated that the new equipment will be safer and more efficient. Readouts will be digital, eliminating judgement calls by operators reading analog gages. It will be simpler to install the parts on the test stands and to adapt the test stands to the different part configurations. Additional safety features will be included as well. The painting, sandblasting, and magnetic particle/fluorescent penetrant processes are conducted as back shop operations outside of MATPCC. A listing of equipment for MATPCC can be found in the Data Collection section of the book.

2.3 WORK FORCE

The work force in MATPCC has experienced a 15% variance over the last two years due to fluctuations in workload. Excess personnel are loaned to other areas. The new harness workload planned for September 1989 will require 50 to 60 additional operators. The new work will be organized to allow the use of personnel with lower skill levels. An effort is being made to design some of these positions to allow them to be filled by handicapped workers.

9 2.3

The 1989 work force consists of one unit chief, four supervisors and the following:

Skill Code	Skill Level	Quantity	Yrs of Avg. Exp.
AY	WG-10	5	15 to 25
	WG-09	11	12 to 25
BY	WG-10	9	15 to 25
	WG-09	3	12 to 25
	WG-08	4	8 to 15
	WG-06	1	5 yrs.
CT	WG-09	15	12 to 25
DY	WG-10	4	15 to 25
	WG-09	8	12 to 25
	WG-07	3	8 to 15

The operators have been actively involved in the Air Force suggestion programs and show a strong desire to improve the quality and productivity of their work. One operator suggestion saved a quarter of a million dollars. No overtime was worked in 1988.

F 2.3

8

FY 89
DC-ALC
RCC RATES

DATE : 13-Mar-89
FILE : OCRATE

RCC	DIRECT LABOR	DIRECT MAT'L	OTHER DIRECT	OVHD IND MAT'L	OVHD OTHER	S & A	TOTAL	TOTAL LESS DIR MAT'L
MABFAD	19.56	14.61	0.00	5.74	11.01	5.34	56.26	41.55
MABPFF	19.65	3.46	0.00	1.67	9.05	5.34	39.17	35.71
MAEPSS	16.79	0.00	0.00	2.92	11.11	5.19	35.91	36.01
NATPAA	17.40	58.69	0.00	1.33	11.81	5.19	94.42	35.73
NATPAD	18.08	122.09	0.00	2.24	13.19	5.19	150.69	36.80
NATPAT	19.71	0.00	0.00	1.23	16.55	5.19	42.68	42.68
NATPCA	18.17	39.11	0.00	2.94	14.53	5.19	79.94	48.53
NATPCB	16.76	81.85	0.00	1.87	14.59	5.19	120.16	33.81
NATPCC	17.87	47.10	0.00	1.29	9.92	5.19	81.37	34.26
NATPCD	17.86	45.43	0.00	1.50	15.75	5.19	85.63	40.40
NATPCN	17.16	0.00	0.00	1.19	13.51	5.19	37.95	37.95
NATPFA	18.33	11.92	0.00	1.36	13.92	5.19	50.72	39.30
NATPFE	18.31	12.21	0.00	1.27	11.85	5.19	48.63	36.62
NATPFF	18.42	19.74	0.00	1.26	18.44	5.19	63.05	43.31
NATPHA	18.78	53.16	0.00	1.84	13.35	5.19	92.12	39.16
NATPHB	18.57	100.30	0.00	1.94	12.65	5.19	138.61	38.57
NATPHE	17.51	0.00	0.00	1.84	13.38	5.19	37.92	37.92
NATPIA	18.13	35.55	0.00	2.61	14.99	5.19	76.47	40.92
NATPIN	18.90	5.79	0.00	3.02	16.15	5.19	49.11	43.32
NATPIW	21.17	1.30	0.00	2.44	23.07	5.19	53.17	51.87
NATPIW	19.28	39.66	0.00	3.47	14.19	5.19	81.59	42.13

2.4 REPAIR PROCESS TECHNOLOGIES

The repair process in MATPCC is relatively unsophisticated. The units are disassembled, repaired, and reassembled using hand tools. Meters, gages, and test equipment are available and required for successfully repairing the units, but the operator must be able to translate the readings into repair or adjustment techniques. Operator knowledge is the most important ingredient in the RCC's process as WCDs are frequently obsolete or difficult to interpret.

In the fuel flow transmitter subshop, the operators repair their units one at a time. The part is pretested on the bench to get some idea of the problem, then disassembled to the extent to which the operator judges. The parts are cleaned by hand and repaired or replaced depending on the condition of the part and the technical order. Specified parts must be replaced, not repaired. The level flow transmission contains a motor and synchro unit.

Work in actuator and servo shops is similarly tested, disassembled, and cleaned, but most units also involve electrical switches in addition to electric motors and other mechanical parts.

The electrical subshop repairs cables and electrical instruments. They also build cables and harnesses.

2.5 WORKLOAD VOLUME AND MIX

Workload consists of 75% MISTR, 15% routed, and 10% temporary and manufacturing. MISTR items are received from both routing and supply. Routed items are parts removed from engines, aircraft, etc. which are routed directly to the required RCC, without passing through supply. These are repaired as MISTR, then returned to the originating RCC.

MATPCC has received a four year contract for 275,000 hours to make harnesses for KC-135 rewire. This will generate the need for 55 additional operators, more space, and a new layout. The % of workload per subunit is:

Electrical equipment	4.4%
Servo	19.1%
Fuel flow	36.0%
Actuator	40.3%

2.6 MATERIAL HANDLING

All material handling within MATPCC is by hand carry or push cart. There is no powered material handling equipment in the RCC. The parts handled are all small and require no special handling or packaging. Completed work is collected from pickup tables by material handlers. All other part movement in and out of the RCC is hand carried by RCC operators. The single most common material handling tool in the RCC is a WG-10 mechanic. This appears to reflect a general condition within the entire ALC and is discussed elsewhere in a focus study recommendation.

Outside the RCC area, units are picked up and delivered to the "barn" on a cart. This occurs every second week. The round trip distance is 880 feet. Parts are delivered and picked up daily at the paint shop on a cart. The round trip distance is 720 feet.

2.7 STORAGE

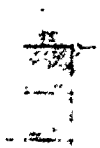
Parts come from supply and are stored in the "barn"¹, a building 300 yards away from the RCC production area. Every two weeks each subunit sends one or two operators to the barn to uncrate and bring their units back to the shop, this takes about two hours. The units are placed on twelve 18" x 36" x 6' shelves in their subshop with the paper work, ready for operators to work.

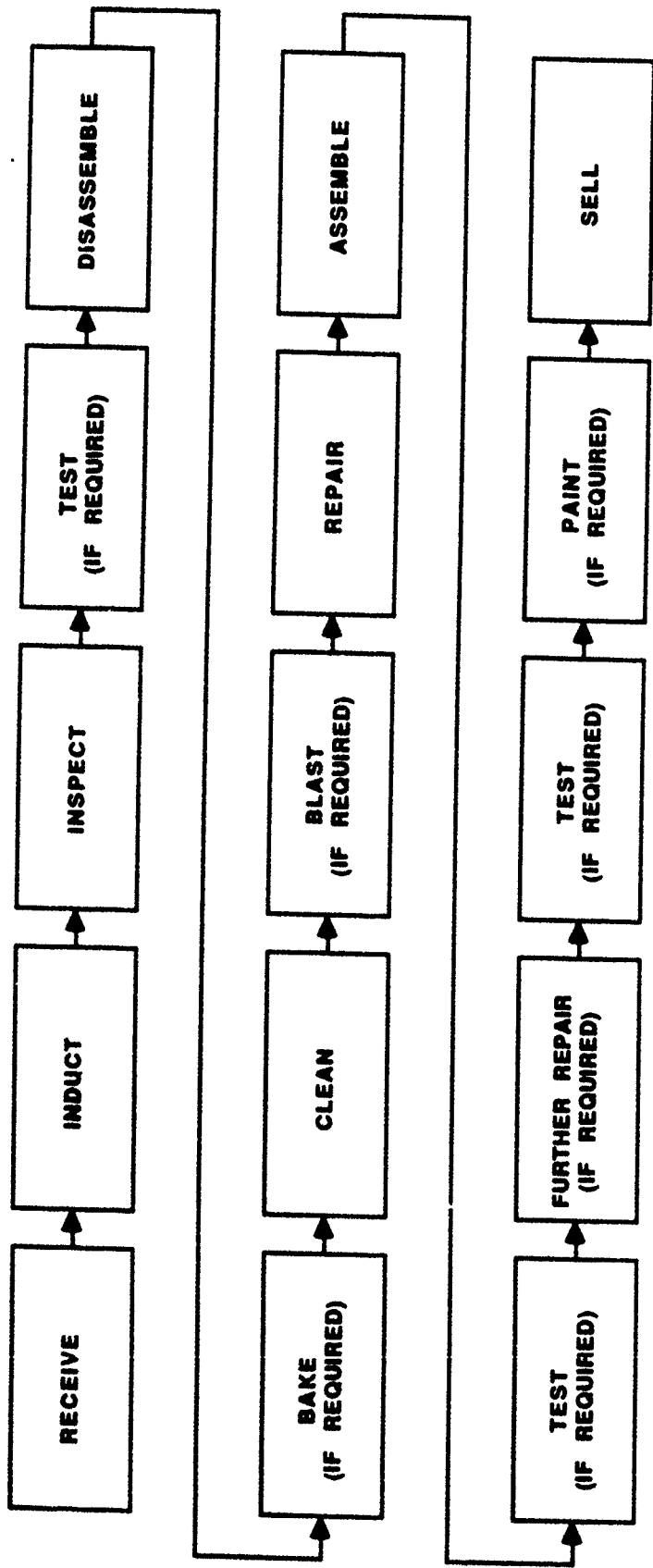
Routed units are delivered to the correct subshop, then put on shelves. Upon completion, units are placed on out going shelves.

Storage is not a problem because of the small size of the units. Each subshop has a set of shelves. More could be added if required.

¹The "barn" is shared by several units. The MATPCC share of 2800 sq. ft. is approximately 467 sq. ft. Each unit uses whatever is available. There are 145 cabinets and shelves 18" x 36" x 6' on line for parts and tool storage.

2.8 Process Flow Charts

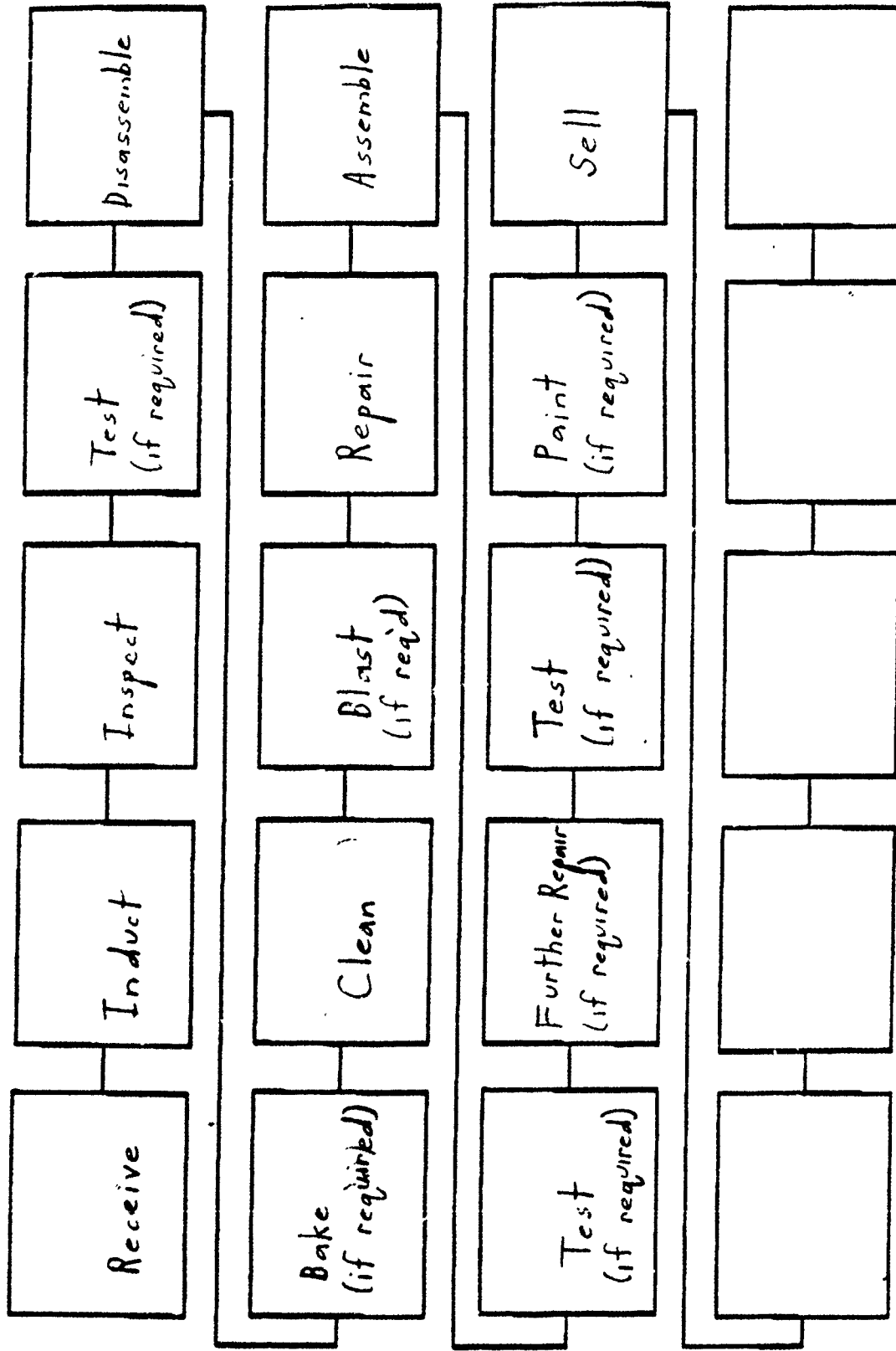




**OC-ALC MATPCC PROCESS FLOW
FIGURE**

LSC-20247

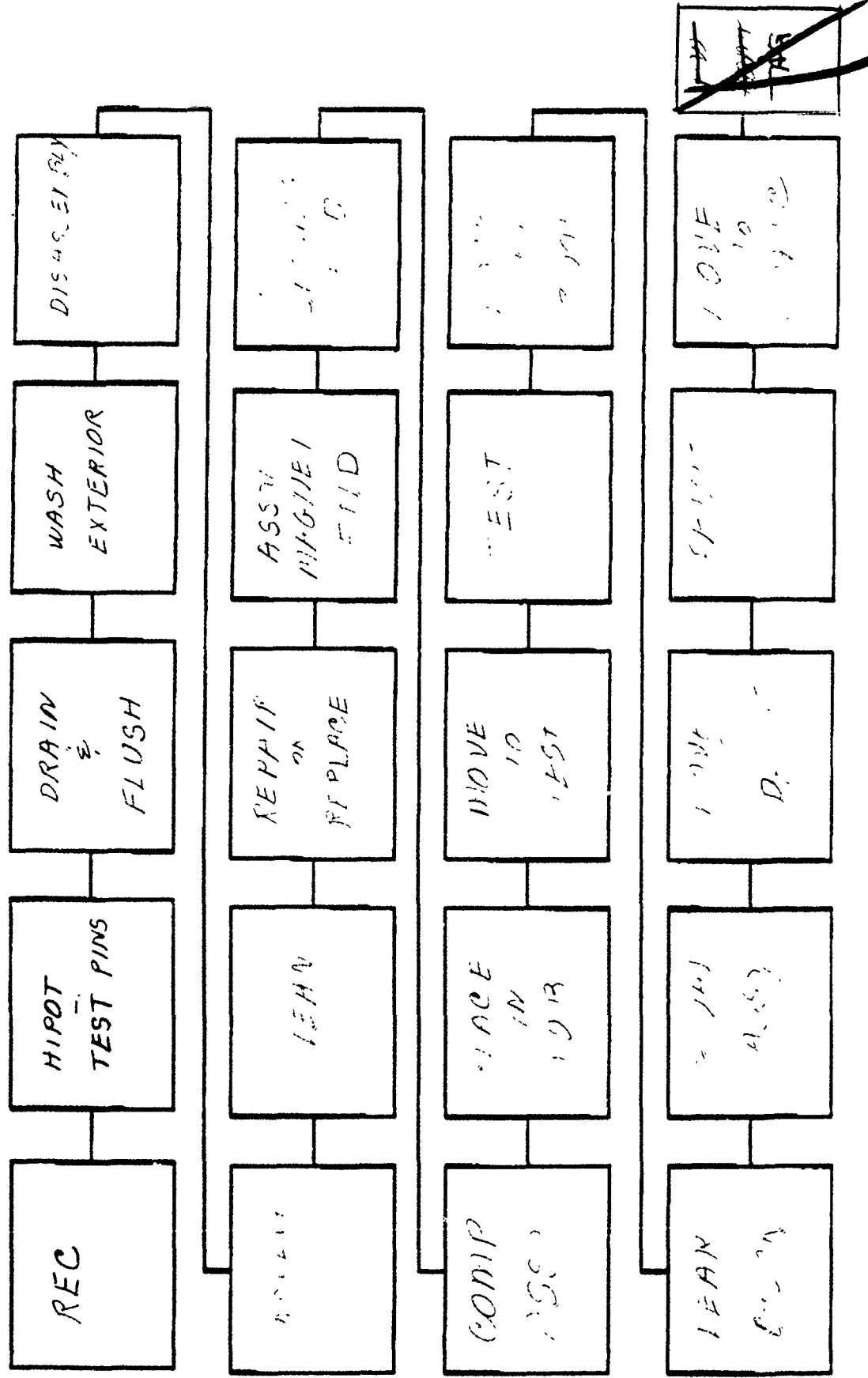
Generic Flow for MATPCC



19800

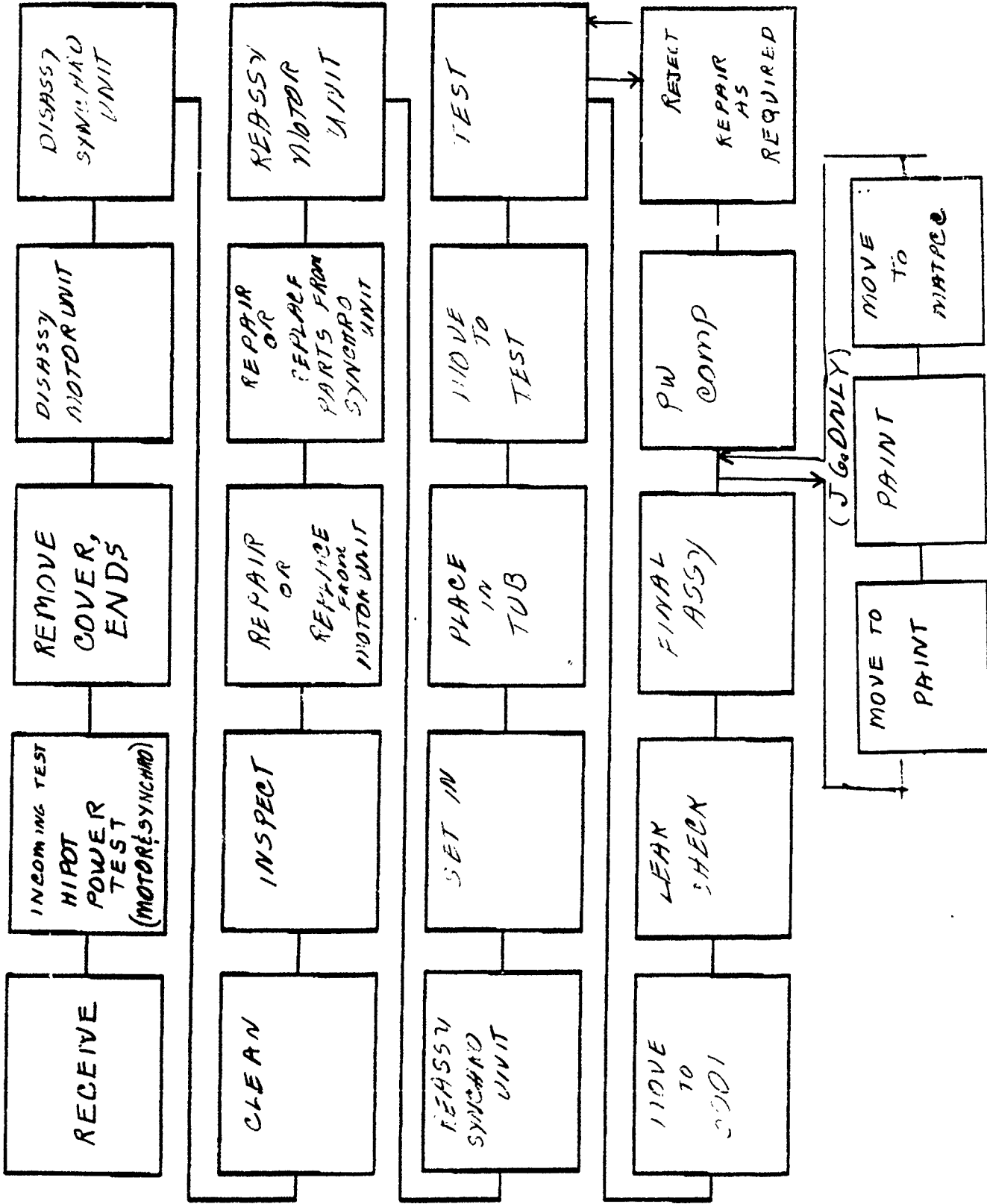
45387A
48451A

FUEL FLOW TRANSMITTER

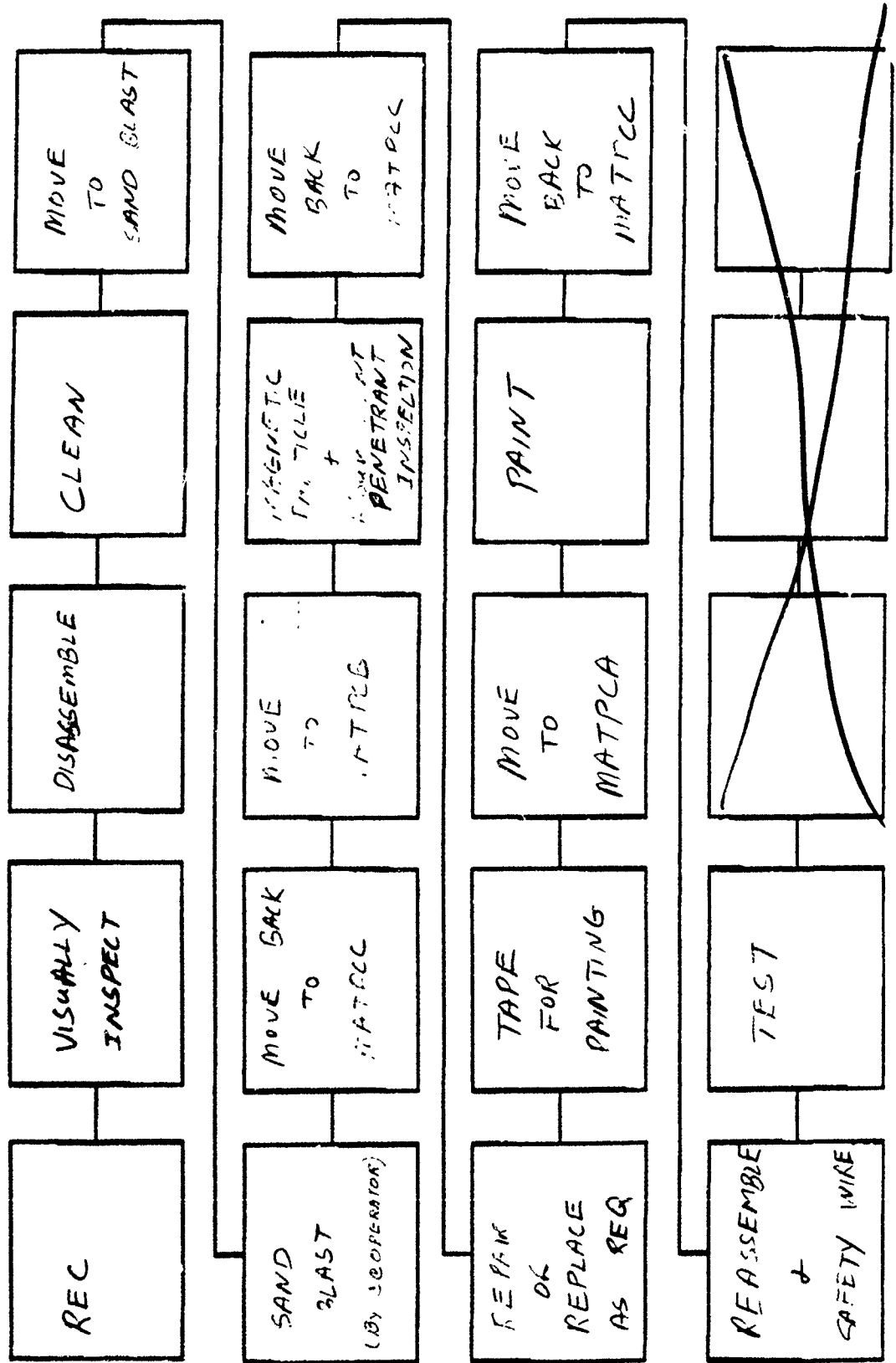


5. ER GULS
BLACK GULS
JGS

FUEL FLOW ANSMITTER



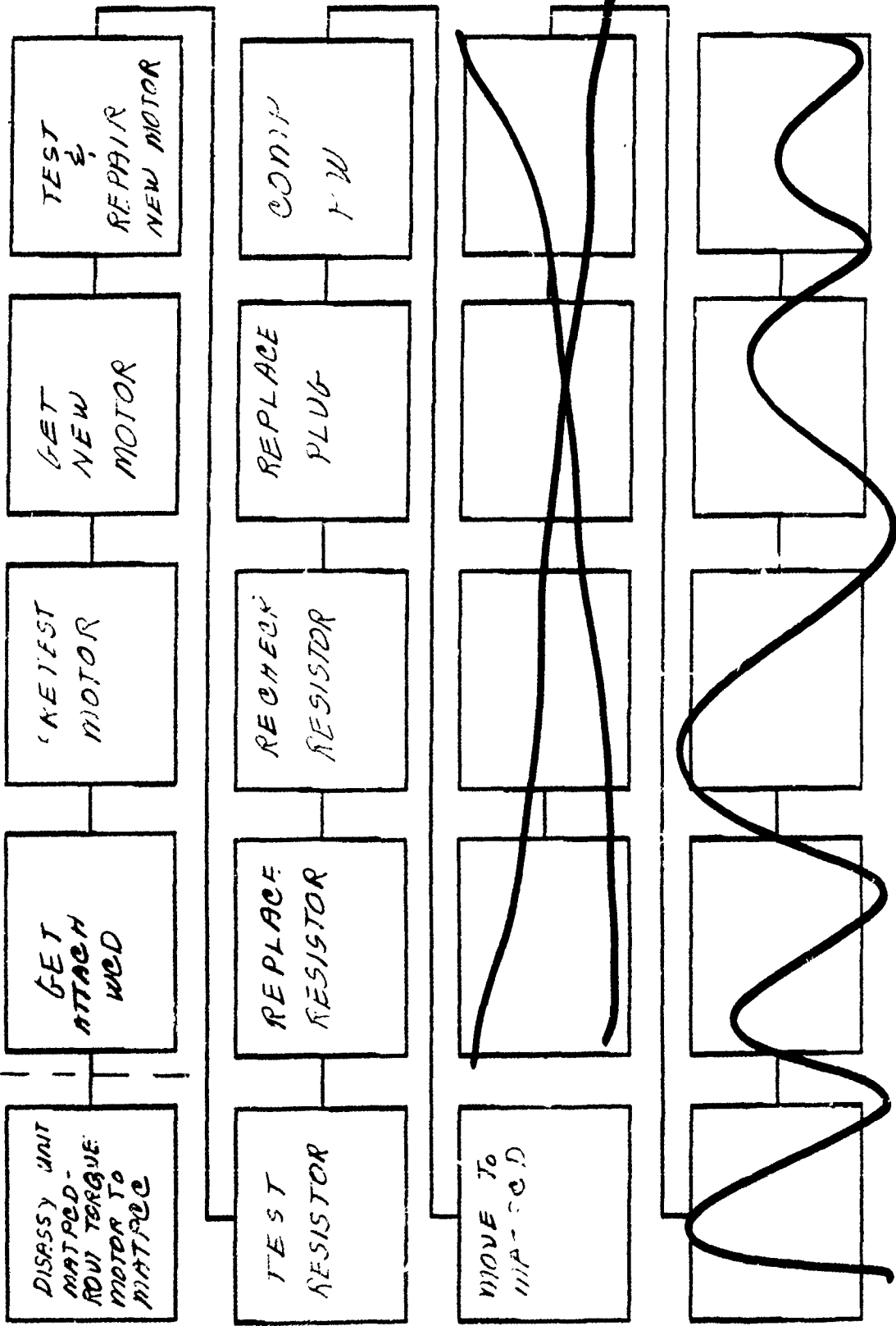
QUADRANT ASSY - CABLE ^{PM} 34510A



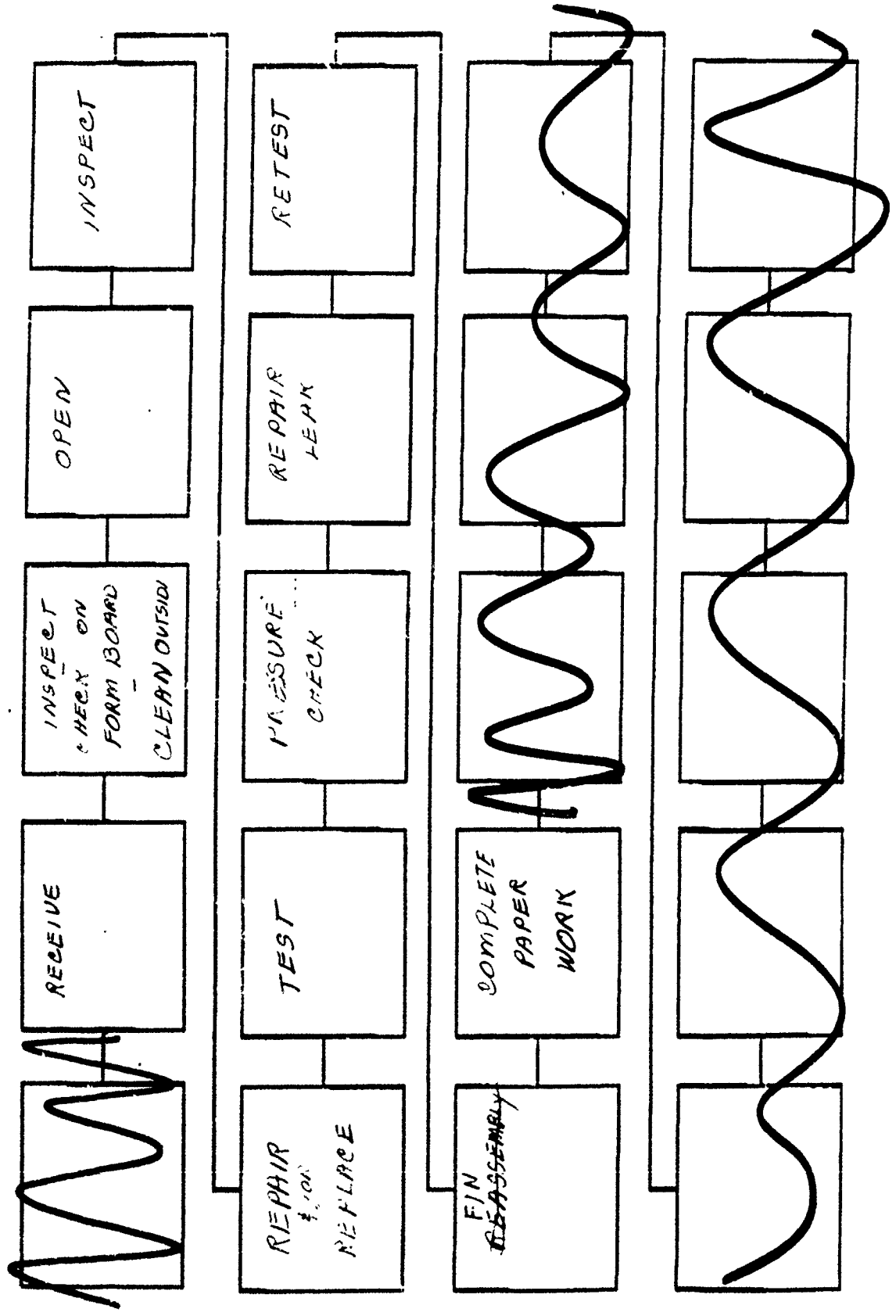
104A

TORQUE MOTOR

START
W.O.D

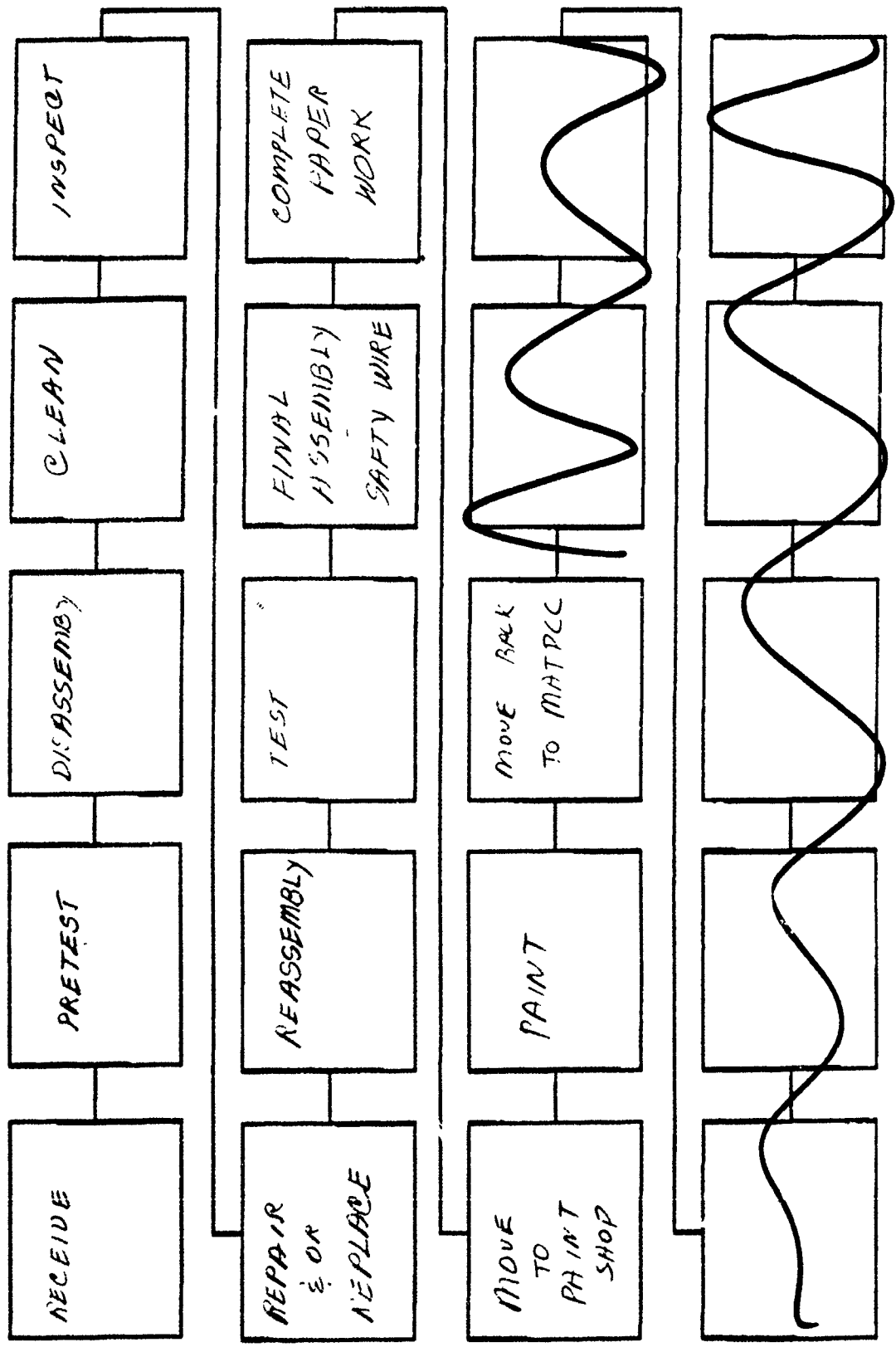


CABLE ASSY. REC PURP



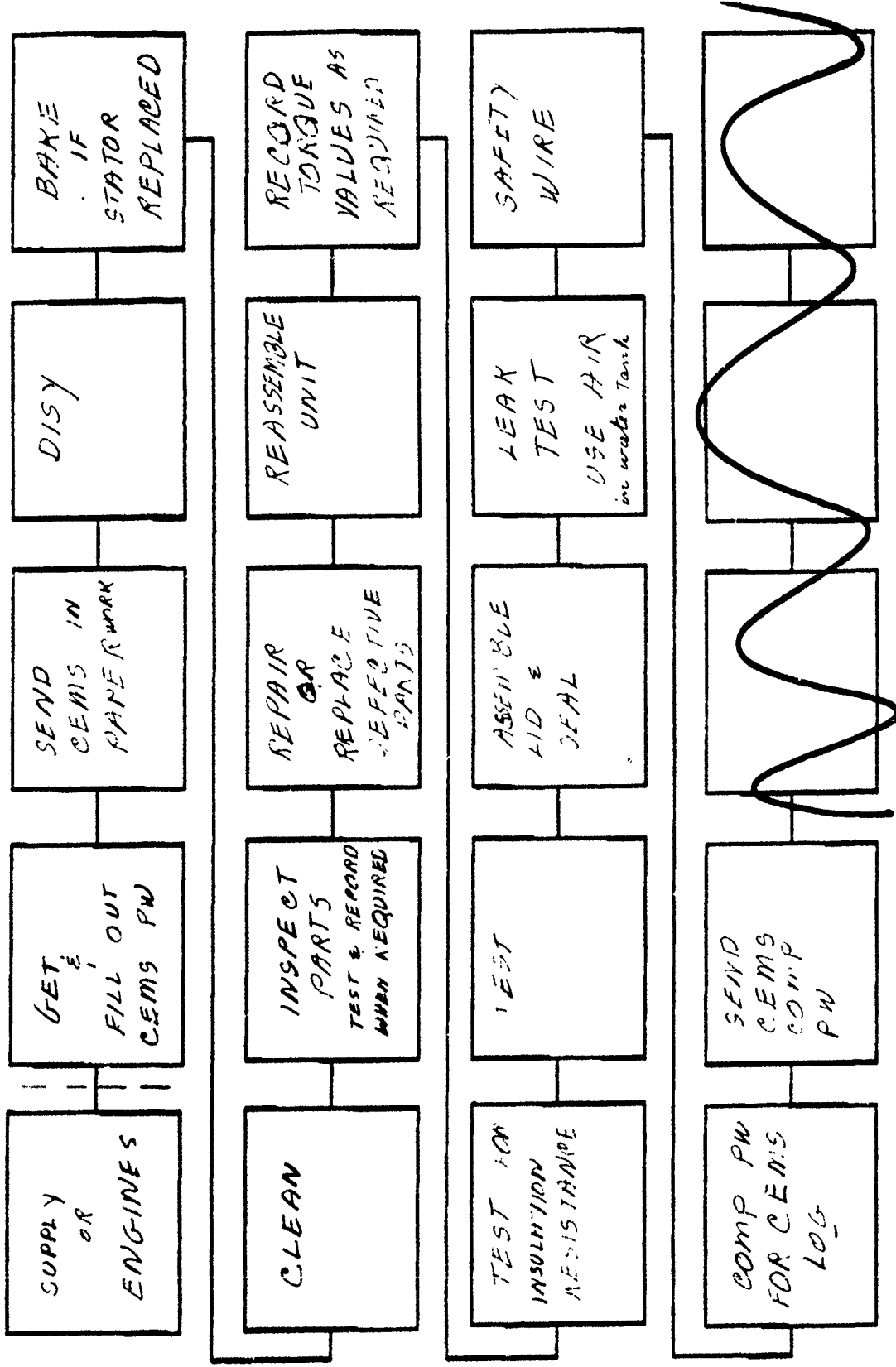
SERVO UNIT

37730

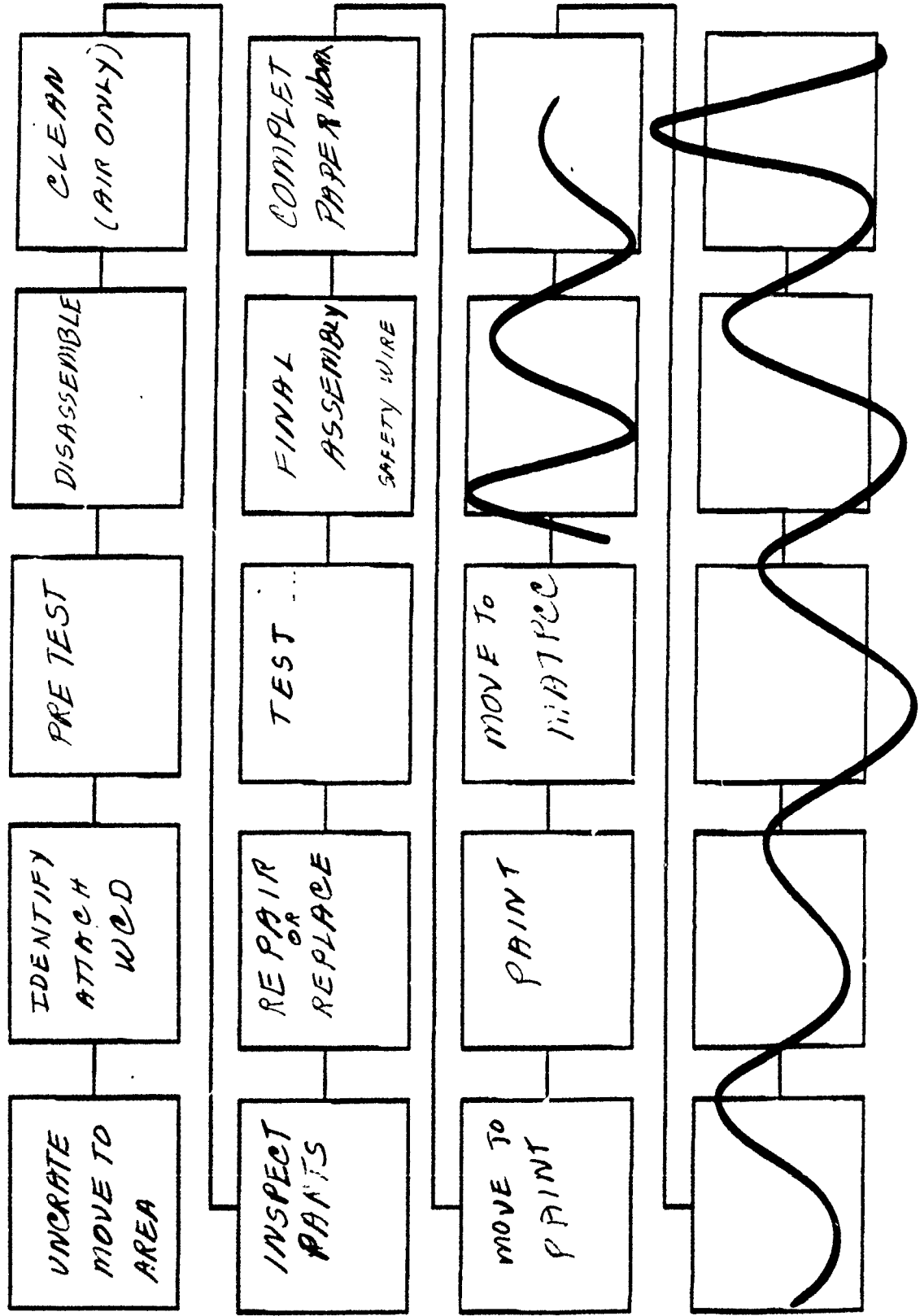


MAGNETO POWER SUPPLY

2-1103



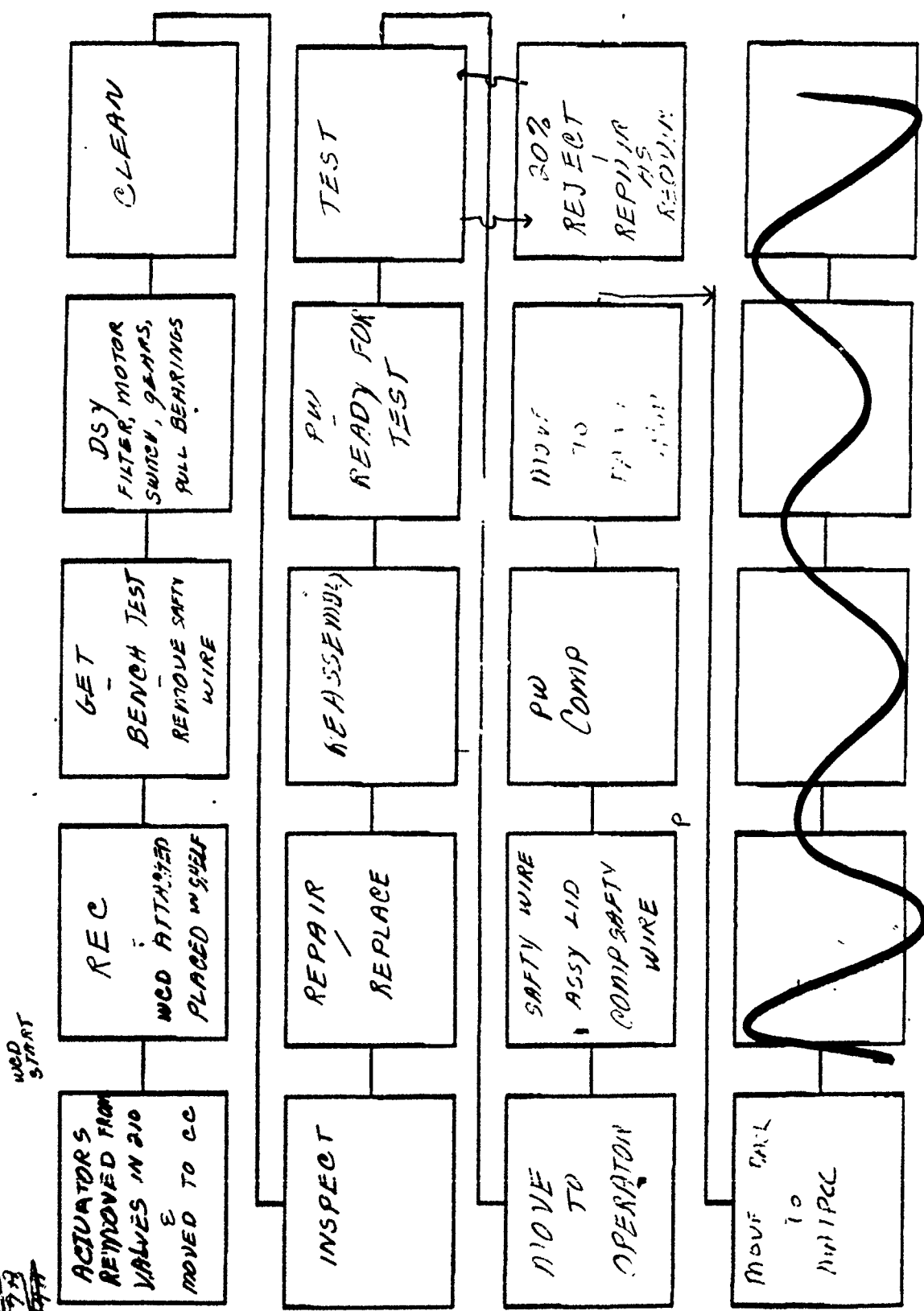
SERVO ASSEMBLY



3970-2
3509

~~95231~~
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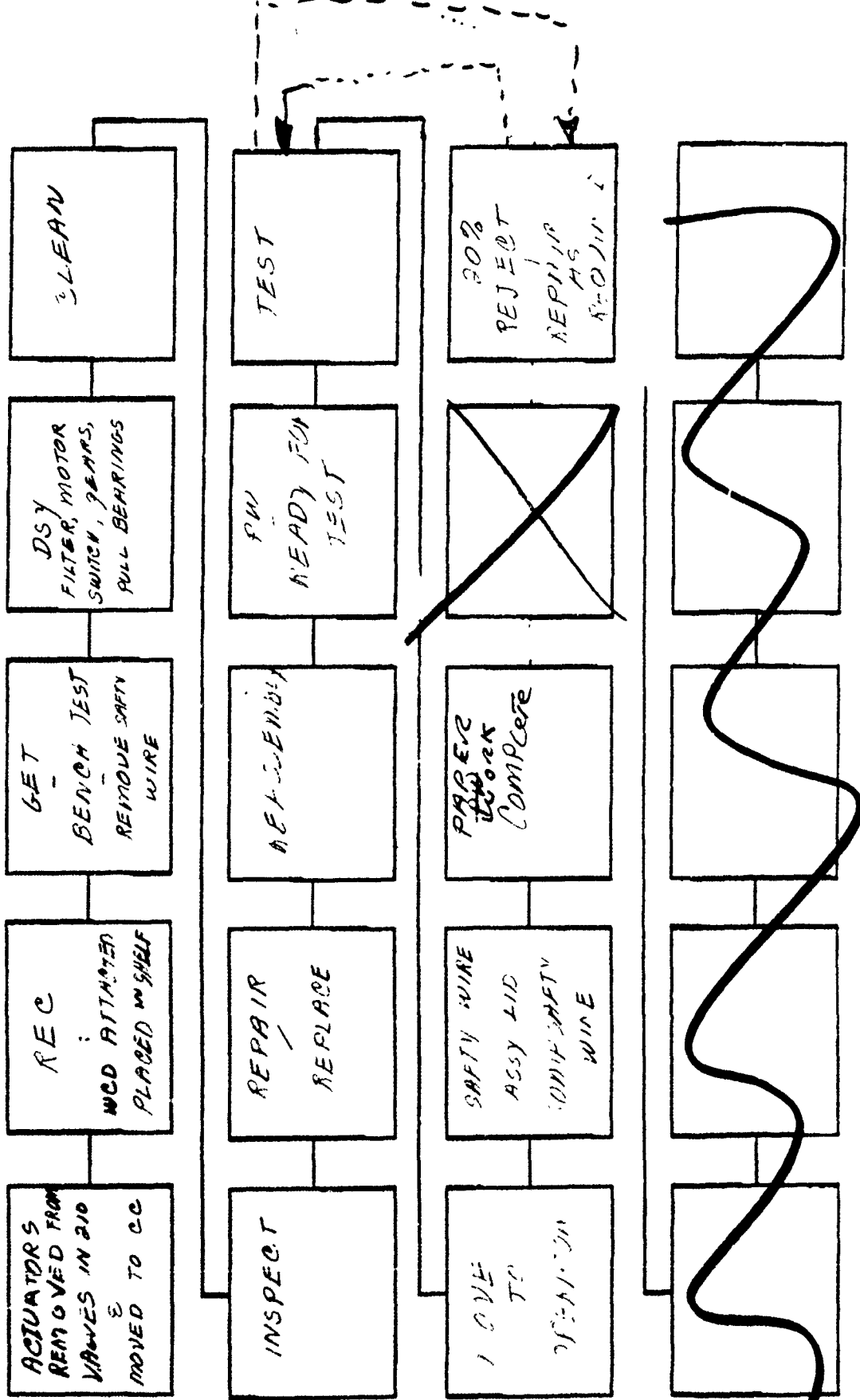
ELECTROME INITIAL ROTARY ACTUATOR
 PO 95333
 5332
 95331



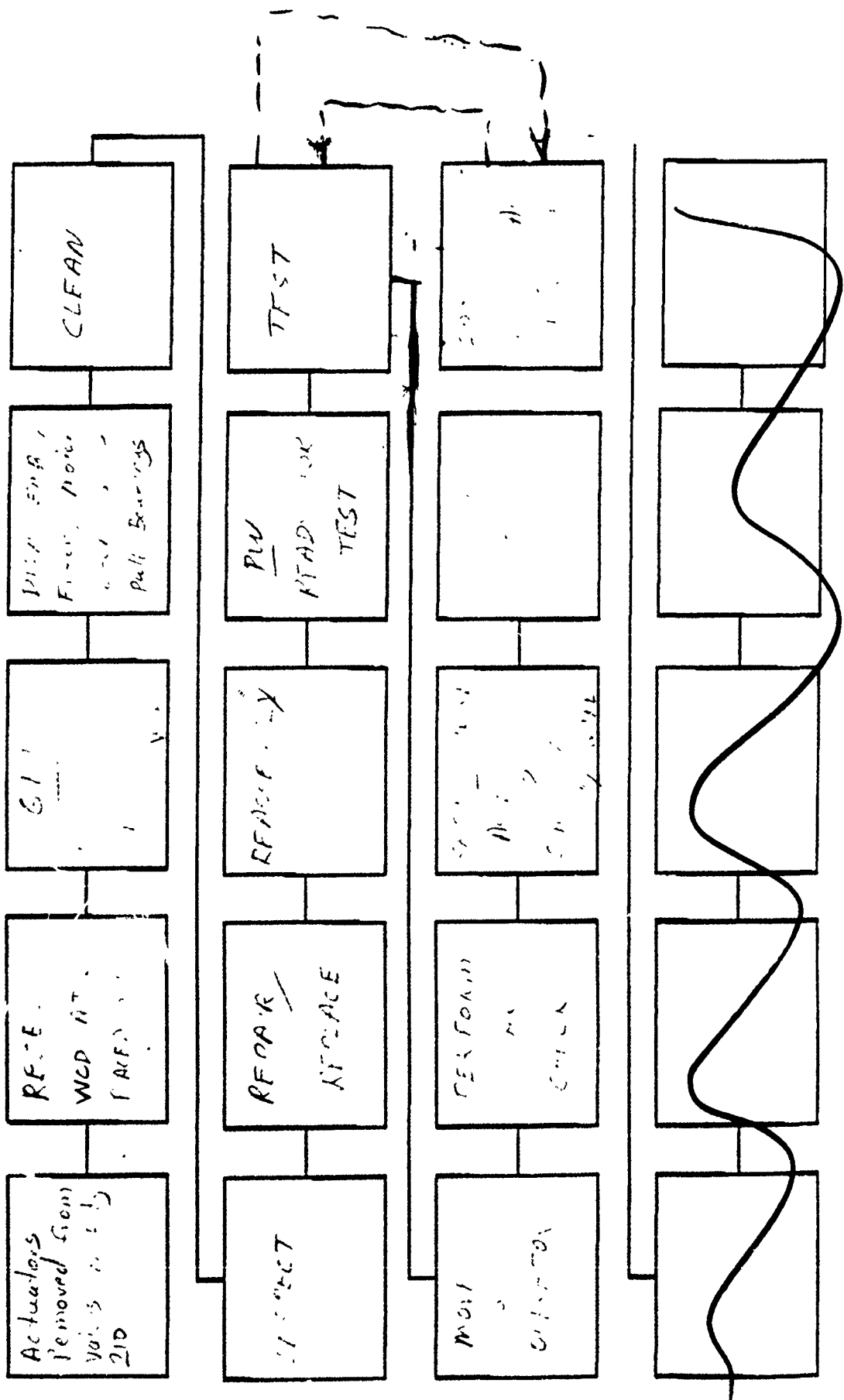
ELECTRONIC INITIAL ROTARY ACTUATOR

PN 34-5031
 34-5031A
 34-5031B
 34-5031C

WED
 START



FLIGHT ... REPAIR ACTUATORS



3.0 80/20 WORKLOAD ANALYSIS

The 80/20 workload was developed using data from the OC-ALC report listing the total negotiated workload for MATPCC. Note: PCNs 94201A, 94227A have been corrected to PCNs 34327A, 34522A. These units carried the PCN of the valve when the actuator had a PCN different from the valve. Forty-one PCNs that have been profiled, account for 80% of the total labor hours expended in MATPCC.

3.1 VALIDATION OF 80/20 ANALYSIS

- The total number of units scheduled multiplied by the standard for each PCN on the 80/20 list equals 49,048 hours.
- The total number of actual completions multiplied by the standard equals 50,508 hours.
- 49,049 hours compared to 50,508 hours studied, validates the fact that we studied 80% of the workload for MATPCC.

49,049	hours required by 80/20 analysis
<u>50,058</u>	studied
102%	of requirement

67%

3.1 14 Comp

EBINLIST C1.C20.C24.C32.C16.C55.C532.(C55*C532), DB HIGH (C55*C532) WH C501 EQ

FCC#	PROG NR	END	ITEM NO	NOUN	MPN	SYG	APP	FLOW	D	FY	OUT	REQ	CON	FY	STU	LAB	HR
	1		24514A 13	4810001751672RV	RVTKNJOW	TF33-79			9			568		3226			5.71
	*		42087A 68	6620009879076 X	TRANSRTF	C0141ZA000			8			341		3025			0.87
			34510A 50	6615000700279TH	CLUTCH V	C111			16			139		25454			17.5
	*		45362A 57	6620008344263 X	TRANSH	C00052000			8			287		2371.			8.20
			61207A 65	6620010201122 X	FRANKTR	F916A			8			327		1991.			6.87
	-		39706A 50	6615010079130LH	SERVO	000C0005			10			121		2229.			18.30
	*		35076A 50	1680008670344NF	SERVUACT	C0141FP860			8			217		1993.			9.11
	1		34512A 67	4810002942506RV	RVTKNJOW	TF333511A			8			333		1830.			5.49
			3719A 86	1660002424102	VALVE	C130			8			128		1819.			4.25
	-		37730A 50	6615006038498	SERVO DR	C0130UE4			8			234		1818			7.77
			18307A 70	6620007203233 X	TRANSMIT	C0130ZC0000			8			341		1700-			4.92
	*		49582A 50	6620010872354 X	TRANSMIR	F015			8			246		1643			6.60
	2		95104A 62	4810009426470TP	VALVE	C135			13			312		1591			8.14
	*		48451A 60	6620006212902 X	XMITTER	B52			8			301		1493			4.90
			95282A 106	4810007060266TP	VALVE	C130			11			531					2.01
	①		94227A 43	2995007551362RV	RVTKQJOW	TF3335911A	MTPA98		8			216		1497.			5.71
			61264A 50	6620010344537 X	XMITTER	F18			7			170		1130			6.60
	3		95131A 50	4810007961672TP	VALVE	C141			7			250		1058			4.22
	①		94201A 50	2995009914153RV	RVTKQJOW	TF33			7			164		1051			5.71
	*		95015A 54	4810005293584TP	VALVE AY	C130			14			272		938			3.45
			66824A 51	4810004302481RV	RUTCHJOC	J87 CON			8			259		839			3.24
			48563A 50	6620005155206 X	FF XMTR	F04Z0000			8			120		834			6.95
	-		98080A 50	4810000689471TP	VALVE	C130			14			158		821			5.32
			39602A 50	1660004620363	ACTUATOR	C5			8			96		812			8.46
			35097A 50	6615000670490	SERVUACT	C0141FP860			8			89		774			0.42
			40371A 50	6620007306368 X	XMITR FF	F111			8	39568.8		114		785			6.89
			10261A 50	6620000505225 X	FF XMTR	F04Z0000			8			107		744			6.05
	-		34549A 50	2925007805502PQ	POTCRJOR	TF30379			13			141		705			5.00
			34103A 50	2925006202496EN	ENFLGKON	TF11A1			8			105		650			6.36
	CO		38666A 50	2915007022471PL	PLTBAKOK	J79-15			16			183		628			3.40
	4		95108A 50	4810007961680TP	VALVE	C141			7			136	607NDE NOT REQ				4.46
	CO		38664A 50	2915009366394PL	PLTBAKOK	J79-17			16			154		584			3.75
			95300A 50	1660000893553	VALVE	F1			14	42242.5		186		521			2.80
	2		95188A 50	4810005550700TP	VALVE	C135			13			100		484			4.84
			34327A 50	4810004307890RV	RVTKNJOW	TF33-79			8			81		480			5.71
	DY		38011A 50	1650007573862	TRANSMIS	C141	MTPA9A		14			208		478			2.30
			95086A 50	4810004424412TP	VALVE	C5	W231		13			115	460	NDE			4.00
			95038A 50	4810006825374TP	VALVE	C130			14			114		459			4.02
			95133A 50	4810004846203TP	VALVE	C5			13			48		432			9.31
	H		95111A 50	1660001360476	VALVE	C5			13			44		409			9.31
			61120A 50	4810005757791TP	REGULATOR	C130			14			95		899			4.22
			94226A	4820000110360RV	RVTKQJOW	TF33-7-100		80%	8	46002.99		67		49048			5.71
			50277A	2915012406643PQ	POTCRJOR	TF30P103			50			121					2.00
	*		95011A	4810008255218TP	VALVE	B52		100%	14	57504		69					5.00
	*		95322A	4810000893550TP	VALVE	F10			11			120					2.80
	*		30033A	1650009303160	TRANSMIS	C141			12			288					1.00
	*		24522A	4810005095147RV	RVTKNJOW	TF333511A			8			55					5.42
			95101A	4810001142144TP	VALVE	C5A			8			32					9.31

34758A 2915009123785PQ
 67A 2925007391473RV
 CABLE
 Meters Any TF33-7

* Electronic Form ACT

3.1

MAT PCC

WANT

needed MID 1952

Page 1/2

			# HISTORY	To Pull To Punch	Ready To Punch
36	30011A				
24	34055A	CCEY40	54		
29	34103A	CCE211	34		
43	34257A	CCCE06	44		
*	34327A	CCBC62	39		
3	34510A	CCAY29	52		
8	34512A	CCEC61	65		
†	34544A	CCEC63	108		
28	34549A	CCEY03	50		
7	35096A	CCAY28	51		
25	35097A	CCAY13,20	50		
*	37649A	CCA124	84		
10	37730A	CCA126	51		
32	38664A	CCEM14	4	26	2
30	38666A	CCEM14	16	14	2
24	39602A	CCAE15	50		
6	39706A	CCAE18	49		
2	42089A			—	50
4	45362A			—	50
11	45387A			30	
26	48371A			—	50
14	48451A			—	50
27	48561A			—	50
22	48563A			—	50
12	49582A			—	50
*	61132A	CCA101	50		
5	61207A			—	50
17	61264A				50
*	94201A (34527)	CCBC62 ⁶⁶	30	30	31
16	94227A (34327)	?	?	30	31
20	95015A	CCAY27	54		
*	95038A	CCA111	50		
15	95052A	CCA113	107		
18	95131A		31	30	31
34	95188A		31	30	31

3.1

MATPCC

Pg 2/2

Need to pull
for History

* 23	95058 A		CCA115	54
	37	95086 A	CCAE13	51
	13	95104 A	CCAV09	52
		DELETE	CCPV10	
* 31	95108 A		CCAY25	46
	40	95111 A	CCAE03	53
	18	95131 A		
	39	95133 A	CCAE11	36
* 34	95188 A		CCAN13	30
* 33	95333 A		CCAD06	49
	24	96524 A	CCEN05	51

30 moved to Pg 1

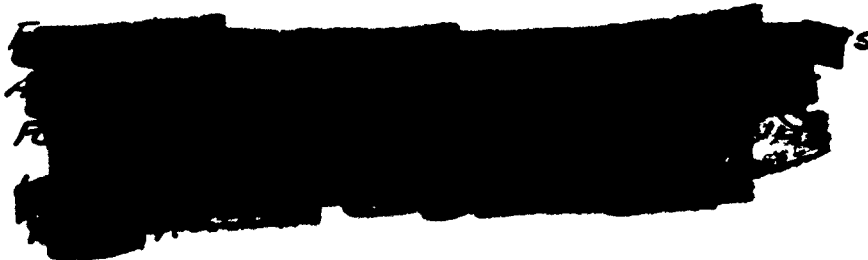
~~30~~ "

4.0 DATA COLLECTION

39

A TOTAL OF NINE PROFILE DATA SHEET
WERE UTILIZED IN THE DATA GATHERING
PROCESS. THESE SHEETS ARE:

OPERATION PROFILE
EQUIPMENT PROFILE
MANPOWER PROFILE
MANPOWER FACTOR PROFILE
DISASSEMBLY/ ASSEMBLY PROFILE
IN-DATE PROFILE
OUT-DATE PROFILE
ENVELOPE PROFILE
WORK LOAD PROFILE



4.1 DATA COLLECTION PROCESS

EACH PCN ON THE 80/20 LIST WAS LISTED ON THE RESPECTIVE PROFILE SHEETS PRIOR TO GATHERING THE DATA.

IN ADDITION, THE TYPE OF TEST BY OPERATION WAS EXTRACTED FROM THE WCD(S) AND NOTED IN THE COMMENTS COLUMN ALONG WITH THE AIRCRAFT NO.

THE UNIT SUPERVISOR - D. Mc DANIEL WAS CONSULTED AS TO WHICH TEST PERSONNEL WERE MOST FAMILIAR WITH SPECIFIC PCN(S)

THE SELECTED MECHANIC WAS INTERVIEWED IN DETAIL AS TO THE SEQUENCE OF OPERATIONS, OCCURENCE FACTOR, NO. OF OPERATORS, THE PROCESS KRS. INCLUDING MIN - MEAN - MAX TIMES. AND ITEM FLOW AND HANDLING.

THERE WERE NO TRIANGULATION INSTANCES.

ADDITIONAL NOTES WERE PUT ON THE PROFILE SHEETS CONCERNING THE CORRELATION OF CELL NO.(S) TO OC. NO(S), AIRCRAFT NO, SET UP FREQUENCY ETC.

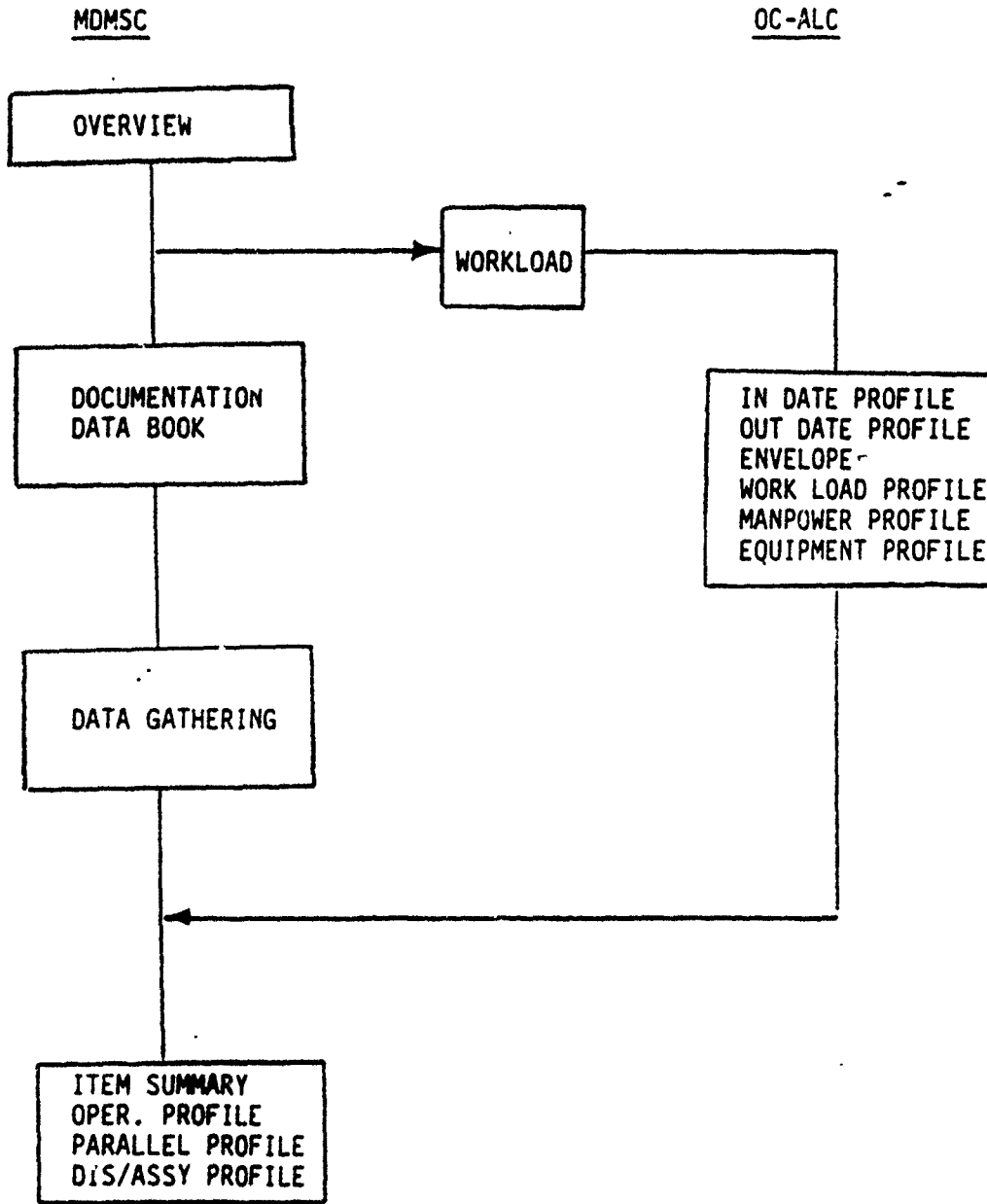
THERE WERE (6) PROFILES GENERATED BY ALL PERSONNEL AND RETURNED/COMPLETED BY MDMSC ENGINEERS.

THEY WERE:

- ENVELOPE PROFILE
- WORK LOAD PROFILE
- EQUIPMENT PROFILE
- MANPOWER PROFILE
- IN DATE PROFILE
- OUT DATE PROFILE

13 APRIL 1989

TECHNOLOGY INSERTION PROGRAM - RESPONSIBILITIES



OPERATION PROFILE

NAME Std. McParland ALC PC DATE 5-29-89 RCC MAT PCC SHEET 1 OF 3

OPERATION NUMBER		MCC	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOE HOURS		MANPOWER		EQUIPMENT		DATA SOURCE COMMENTS
						%	MRS.	CTY.	%	TIME REQUIRED %	CTY.	
<p>WCD <u>CCAL22</u> WCD DATE <u>88181</u></p>												
00	MAT REC		IN	1	TRANSIT	19.2						ABBIE WESLEY
10	MAT PCC		REC	1.	SETUP							
15			TEST	1.	PROCESS			CT09	1		.1	
20			DIS	1.	TRANSIT			CT09	1		.1	PRETEST
30			CLN	1.	SETUP			CT09	1		.5	FLUSH DRAIN THEN DISASSY
40			INSP	1.	PROCESS			CT09	1		.3	
					TRANSIT							
					SETUP							
					PROCESS							
					TRANSIT							
					SETUP							
					PROCESS							

OPERATION PROFILE

NAME Mr. Parkland ALC DC DATE 5-1-89 RCC MATP SHEET 2 OF 3

OPERATION NUMBER	RCC	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOW INDEX %	SKILL CODE/LEVEL	MANPOWER		EQUIPMENT		DATA SOURCE COMMENTS
							QTY.	TIME REQUIRED %	QTY.	TIME REQUIRED %	
50	MAT PCC	REP.	1.	TRANSIT SETUP PROCESS		CT09	1	.4			1
60		ASSY	1.	TRANSIT SETUP PROCESS		CT09	1	1.3			
70		TEST	1.	TRANSIT SETUP PROCESS	8	CT09	1	.1			move to 3801 for test
75		REP.	.6	TRANSIT SETUP PROCESS		CT09	1	.6	0C1552	1	.8
76		TEST	.6	TRANSIT SETUP PROCESS	8	CT09	1	.1			move to 3801 repair after rejection
						CT09	1	.5			
						CT09	1	.1			move to 3801
						CT09	1	.6	0C1552	1	.8

OPERATION PROFILE

SHEET 3 OF 3

DATE 5-29-79

RCG MATP

WCD DATE 88181

NAME and: McFarland ALC CC

WCD CCA122

WCD DATE 88181

WCD CCA122

45387A

OPERATION NUMBER	RCG	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOW HOURS		MANPOWER		EQUIPMENT		DATA SOURCE COMMENTS
					%	HRS.	QTY.	%	HRS.	QTY.	
80	MAT PEC	ASSY	1.0	TRANSIT	3		1	1			move to 3001
				SETUP							
				PROCESS			1	0.4			
81	MAT PEC	MOVE	1.0	TRANSIT				1			MOVE TO PRINT IN CA
				SETUP							
				PROCESS		3					
82	MAT PCA	PANT	1.0	TRANSIT							
				SETUP							
				PROCESS							
90	MAT PEC	PW	1.0	TRANSIT				1			
				SETUP							
				PROCESS				1			
9999				TRANSIT							
				SETUP							
				PROCESS							

OPERATION PROFILE

31

NAME *Eric McFarland* ALC *CC* DATE *5-29* RCC *MATP* SHEET *1* OF *6*

WCD *CC E C C L* WCD DATE *8918*

OPERATION NUMBER	RCC	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOW HOURS		SKILL CODE/ LEVEL	MANPOWER		EQUIPMENT		TIME REQUIRED		DATA SOURCE COMMENTS
					%	HRS.		QTY.	%	HRS.	QTY.	%	HRS.	
00	<i>MAT</i>	<i>IN</i>	<i>1</i>	TRANSIT		<i>140</i>								
10	<i>RCC</i>	<i>REC</i>	<i>1</i>	TRANSIT <i>PROCESS</i>			<i>A409</i>	<i>1</i>				<i>0.1</i>		
15		<i>INFO</i>	<i>1</i>	TRANSIT <i>PROCESS</i>										
16		<i>CLN</i>	<i>1</i>	TRANSIT <i>SETUP</i> <i>PROCESS</i>			<i>A409</i>	<i>1</i>				<i>0.1</i>		
17		<i>TEST</i>	<i>1</i>	TRANSIT <i>SETUP</i> <i>PROCESS</i>			<i>A409</i>	<i>1</i>				<i>0.2</i>		
20		<i>DIS</i>	<i>1</i>	TRANSIT <i>SETUP</i> <i>PROCESS</i>			<i>A409</i>	<i>1</i>				<i>0.5</i>		

5.42
1.15
6.57

OPERATION PROFILE

NAME Eric McFarland ALC OC DATE 5-29 RCC MATP SHEET 2 OF 6

OPERATION NUMBER	RCC	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOW HOURS		MANPOWER		WCD DATE		EQUIPMENT		DATA SOURCE COMMENTS	
					%	MRS.	QTY.	%	%	MRS.	QTY.	%		MRS.
30	MAT PCC	CLEN	1.0	TRANSFER SETUP PROCESS				1						
40		INSP	1.0	TRANSFER SETUP PROCESS				1						
190		REP	1.0	TRANSFER SETUP PROCESS				1						
200		LUBE	1.0	TRANSFER SETUP PROCESS				1						
210		ASSY		TRANSFER SETUP P PROCESS				1	20					
								1	75					

OPERATION PROFILE

NAME Eric McFarland ALC DC DATE 5-29 RCC MATP SHEET 3 OF 6

PCN NPN PIN	OPERATION NUMBER	RCC	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOOR HOURS		MANPOWER		EQUIPMENT		DATA SOURCE COMMENTS			
						%	NRS.	QTY.	TIME REQUIRED %	NRS.	EQUIPMENT CODE		QTY.	TIME REQUIRED %	NRS.
						WCD DATE									
220	not rec		ASSY	1	TRANMIT										
					SETUP										
					PROCESS										
230			ASSY	1	TRANMIT										
					SETUP										
					PROCESS										
240			ASSY	1	TRANMIT										
					SETUP										
					PROCESS										
250			Face	1	TRANMIT										
					SETUP										
					PROCESS		5								
260			test	1	TRANMIT										
					SETUP										
					PROCESS										

OPERATION FILE

NAME Endicott, McInerney, ALC, CC DATE 5-29 FCC MATP SHEET A OF 4

OPERATION NUMBER	FCC	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOW HOURS		MANPOWER		WCD DATE		EQUIPMENT		DATA SOURCE COMMENTS		
					%	MRS.	QTY.	SKILL CODE/ LEVEL	QTY.	%	MRS.	QTY.		%	MRS.
270	mat PCC	TEST	1	PROCESS			1	A909	50	.1	1	PO0325	.1		
280		test	1	PROCESS			1	A909	50	.1	1	PO0325	.1		
290		test	1	PROCESS			1	A410		.0	1				
300		TEST	1	PROCESS			1	A910		.00	1				
310		TEST	1	PROCESS			1	A410		.00	1				

OPERATION PROFILE

NAME Mr. Ford ALC PC DATE 5-29 RCC MATP SHEET 5 OF 6

OPERATION NUMBER	RCC	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOW HOURS		MANPOWER		WCD DATE		EQUIPMENT		DATA SOURCE COMMENTS
					%	HRS.	QTY.	%	HRS.	QTY.	%	HRS.	
329	MAT PCC	TEST	1	TRANSIT									
				SETUP									
				PROCESS			Ag 10	1					
330	}	INS	1	TRANSIT									
				SETUP									
				PROCESS			Ag 10	1					
340	}	TEST	1	TRANSIT									
				SETUP									
				PROCESS			Ag 10	1					
350	}	TEST	1	TRANSIT									
				SETUP									
				PROCESS			Ag 10	1					
360	}	READY	1	TRANSIT									
				SETUP									
				PROCESS			Ag 10	1					

OPERATION OF FILE

NAME 3. Mc FARLAND ALC CC DATE 4-20-89 RCC MAIP = SHEET 6 OF 6

OPERATION NUMBER	RCC	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOW HOURS		SKILL CODE/ LEVEL	MANPOWER		WCD DATE		EQUIPMENT		DATA SOURCE COMMENTS
					%	HRS.		QTY.	%	HRS.	QTY.	%	HRS.	
370	MPT PCC	PW1	1	TRANSIT			A109							
				SETUP										
				PROCESS										
380				TRANSIT										
				SETUP										
				PROCESS										
390				TRANSIT										
				SETUP										
				PROCESS										
400				TRANSIT										
				SETUP										
				PROCESS										
6666				TRANSIT										
				SETUP										
				PROCESS										

OPERATIC PROFILE

NAME 2 Mc FARLAND ALC OC DATE 4-20-89 RCC MATP SHEET 1 OF 2

OPERATION NUMBER	RCC	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOOR HOURS		MANPOWER		EQUIPMENT			DATA SOURCE COMMENTS	
					%	HRS.	QTY.	TIME REQUIRED %	TIME REQUIRED HRS.	EQUIPMENT CODE	QTY.		TIME REQUIRED %
00	MAT	IN REC	1	TRANSIT		100							
10	PC	REC	1	SETUP									
15		INFO	1	PROCESS				DY09	1		.05		
30		CLN	1	TRANSIT									
40		INSP	1	SETUP									
50		INSP	1	PROCESS				DY09	1		.05		

WCD CEAY02 WCD DATE 88308

WCD 3001A

CHARLES FORD

OPERATION OFFICE

NAME 3. McFARLAND, A.C. OC DATE 4-20-89 RCC MATP SHEET 2 OF 2

OPERATION NUMBER	RCC	OPERATION DESCRIPTION	MANDATORY OCCURRENCE FACTOR	OPERATION TYPE	MANDATORY FLOW HOURS		MANPOWER		EQUIPMENT		DATA SOURCE COMMENTS
					%	MINS.	QTY.	TIME REQUIRED %	TIME REQUIRED MINS.	QTY.	
55	MRP PCC	ASSY	.95	TRANSIT SETUP PROCESS							GUILD UP SUBASSY
60		REP	1.	TRANSIT SETUP PROCESS			1	1.8			
70		INSP	1.	TRANSIT SETUP PROCESS			1	.4			
90		PW	1.	TRANSIT SETUP PROCESS			1	.05			
9999				TRANSIT SETUP PROCESS			1	.1			

WCD DATE 88308

WCDCCAYDA

30011A

ADD

EQUIPMENT PROFILE

NAME S. P. FARLAND ALC OC DATE 23 MAY 81 RCC MAIRCC SHEET 1 OF 3

EQUIPMENT CODE	EQUIPMENT TYPE/DESCRIPTION	QUANTITY PER SHIFT			PREVENTIVE MAINT.			DOWNTIME			PERCENT USED FOR OTHER RCCO (4-9 TIME NOT AVAILABLE)	ENVELOP UNITS	ALTERNATE EQUIPMENT CODE	SOURCE
		1st	2nd	3rd	FREQ.	SHIFT	DOWN TIME	UNREPAIRED	UNREPAIRED	UNREPAIRED				
		1st	2nd	3rd	90	1	2	1	2	3	MIN	MAX		
OC 2157	Servo Test Station	1			90	1	2	-	-	-	/	/	-	
OC 2158	Sec'd Analyzer	2			210	1	40	-	-	-	/	/	-	
71324	Servo Test Stnd	1			90	1	40	-	-	-	/	/	-	
92504	Auto Test Stnd	1			-	-	-	-	-	-	/	/	-	
81377	Servo Tester	1			90	1	2	-	-	-	/	/	-	
PL0517	Pure Angle	3			90	1	80	-	-	-	/	/	-	
PL1857	Current Pack	1			210	1	2	-	-	-	/	/	-	
PL1844	Servo Test Stnd	1			90	1	2	-	-	-	/	/	-	
PL1944	Auto 37C	1			180	1	2	-	-	-	/	/	-	
PL0340	Auto Pump Test	1			365	1	2	-	-	-	/	/	-	
PL0340	Generator Test	1			90	1	2	-	-	-	/	/	-	
OC 1521	Fuel Flow Test	1			180	1	1	0.15	4.00	0	/	/	OC 1551	HARMON SEARCY

EQUIPMENT PROFILE

EQUIPMENT CODE		EQUIPMENT TYPE/DESCRIPTION	QUANTITY PER SHIFT			DOWNTIME				PERCENT USED FOR OTHER RACKS (A-S TIME NOT AVAILABLE)	ENVELOP UNITS		ALTERNATE EQUIPMENT CODE	SOURCE
			1st	2nd	3rd	PREVENTIVE MAINT.		UNSCHEDULED BREAKDOWN REPAIR TIME			MIN	MAX		
						FREQ.	SHIFT	DOWN TIME	MTBF					
061551		FUEL FLOW TSTR	1			180	1						061531	HERMAN
061552		FUEL FLOW TSTR	1			180	1						061552	"
061553		FUEL FLOW TSTR	1			180	1						061550	"
061554		FUEL FLOW TSTR	1			180	1	180	180				061552	"
093511		PWR SUPPLY	1											"
094951		PWR SUPPLY	1											"
094952		PWR SUPPLY	1											"
094953		TORQUE TSTR	1											"
094954		PHASE SENS. VM	4											"
094955		OSCILLOSCOPE	4			90	1	40						"
094956		HIPOT TSTR	3											"
094957		SCALES	4			365	1	40						"

NAME _____ ALC DC DATE 23 MAY 87 RCC MAT PCC SHEET 2 OF 5

BEHMAN FOR
 LAST 6. AM.
 SCHEDULED FOR
 SCRAP

EQUIPMENT FILE

NAME		ALC		OC		DATE		RCC		MAT		PCC		SHEET		3 OF		B	
EQUIPMENT CODE	EQUIPMENT TYPE/DESCRIPTION	QUANTITY PER SHIFT			PREVENTIVE MAINT.		DOWNTIME		UNUSUAL		PERCENT USED FOR OTHER PROGS (4-9 TIME NOT AVAILABLE)	ENVELOP UNITS		ALTERNATE EQUIPMENT CODE	SOURCE				
		1st	2nd	3rd	FREQ.	SHIFT	DOWN TIME	MTBF	MTTR	MIN		MAX							
93678	CABLE I S I R 4000 CABLE TESTER	1			180	1	16	-	-	-	10%			94249	Handwritten				
94249	CABLE I S I R 4000 CABLE TESTER	1			180	1	16	-	-	-	90%			93678	"				
MAC CMBR	MAGNETIC CARRIER	1			-	-	-	-	-	-	Ø			-	HERMAN SEARCY				
P02427	A/C ACTUATOR TSTR	1			-	-	-	-	-	-	Ø			-	-				
P00326	P/C ACTUATOR TSTR	1			90	-	24	-	-	-	Ø			-	-				
93472	4000 CABLE TESTER	1			180	1	16	-	-	-	10%			-	L. LAKIN				
0C3405	SET IGNITION TESTER	1			180	1	1	-	-	-	Ø			-	"				
0C5034	RUNNER 9100	1			180	1	8	-	-	-	Ø			-	"				
0C4103	Ignition Tester	1			90	1	1	-	-	-	Ø			-	"				
04103	Ignition Tester	1			-	-	-	-	-	-	Ø			-	Handwritten				
04103	Ignition Tester	1			90	1	1	-	-	-	Ø			-	Handwritten				
04103	Ignition Tester	1			90	1	40	-	-	-	Ø			-	Handwritten				

EQUIPMENT . OFILE

NAME _____		ALC _____		DATE _____		RCC _____		SHEET <u>1</u> OF <u>3</u>					
EQUIPMENT CODE	EQUIPMENT TYPE/DESCRIPTION	QUANTITY PER SHIFT			PREVENTIVE MAINT.			DOWNTIME		PERCENT USED FOR OTHER RCCS (P.S. TIME NOT AVAILABLE)	ENVELOP UNITS MIN MAX	ALTERNATE EQUIPMENT CODE	SOURCE
		1st	2nd	3rd	FREQ.	SHIFT	DOWN TIME	UNREPAIRABLE REPAIR TIME	REPAIR				
P1940	AETD 375 Sewer Sump	1			6/1000	1	None None	None None	-	-			
P1779	Machine IP Salansing	1			6/1000	1	None None	None None	-	-			
80675	AETD 375 Sewer Sump	1			3/1000	1	None None	None None	-	-			
P00310	Water Pump Sewer Sump	1			6/1000	1	None None	None None	-	-			
P10340	Generator Sewer Sump	1			3/1000	1	None None	None None	-	-			
A0148	Generator	1								73			MT-1 ep. Model

15/20

EQUIPMENT FILE

EQUIPMENT CODE	EQUIPMENT TYPE/DESCRIPTION	QUANTITY PER SHIFT			PREVENTIVE MAINT.			DOWNTIME			PERCENT USED FOR OTHER ROCS (4-6 TIME NOT AVAILABLE)	ENVELOP UNITS MIN MAX	ALTERNATE EQUIPMENT CODE	SOURCE
		1st	2nd	3rd	FREQ.	SHIFT	DOWN TIME	MTBF	UNPLANNED BREAKDOWN REPAIR TIME	MTTR				
OC187	Servo Test Station	1			3mo	1								
PD1750	Servo Amplifier	2			7mo	1								
E1805	Servo Test Sub	1			3mo	1								
71374	Auto Test Stand	1			APR	1						71375		
92509	Servo Station	1			3mo	1								
OC2698	Phase Angle	3			3mo	1								
81319	Test Stand	1			7mo	1								
PD1517	Test Stand	1			3mo	1								
OC5104	Check Rack	1			3mo	1								
PD1357	Servo Test Stand	1			3mo	1								
PD1844	Servo Test Stand	1			3mo	1								
81002	Scrubber	2			3mo	1								
PD3131	Scrubber	2			3mo	1								
PD3132	Scrubber	2			3mo	1								
81931	Control	1			3mo	1								

RCC MAIPCC SHEET 5 OF 5

ENVE
(For Internal Use, Not a Model Input)

ALC OC RCC NAIPCC EQUIPMENT CODE _____

TOTAL VOLUME OF EQUIPMENT IN CU. FT. _____

LIST OF PARTS BY ITEM NUMBER	SUBVOLUME CU. FT.	UNIT VALUE	MINIMUM	MAXIMUM	REMARKS/SOURCE
PCN NSN PIN	WORK REQUIRED				
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					
PCN NSN PIN					

DISASSEMBLY/ASSEMB. ROFILE

NAME <u>Sadie M. Farland ALC CC</u>			DATE <u>5-16-89</u>			DOC <u>MAT PCC</u>			SHEET <u>1</u> OF <u>1</u>		
TOP ASSEMBLY			SUBASSEMBLY			REMOVAL OPERATION NUMBER			INSTALLATION OPERATION NUMBER		
P/N NUMBER	WCD	WCD DATE	P/N NUMBER	WCD	WCD DATE	P/N NUMBER	WCD	WCD DATE	P/N NUMBER	WCD	WCD DATE
PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
PM			PM			PM			PM		
PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
PM			PM			PM			PM		
PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
PM			PM			PM			PM		
PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
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PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
PM			PM			PM			PM		
PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
PM			PM			PM			PM		
PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
PM			PM			PM			PM		
PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
PM			PM			PM			PM		
PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
PM			PM			PM			PM		
PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
PM			PM			PM			PM		
PCN			PCN			PCN			PCN		
NSM			NSM			NSM			NSM		
PM			PM			PM			PM		

NOT REQUIRED

PARALLEL PROC ; PROFILE

NAME Sadie M. Janssen A.C. O.C. DATE 5-17-89 RCC MATPCC SHEET 1 OF 1

ITEM NUMBER	PARENT WCB	PARENT WCB DATE	BEGINNING OPERATION NUMBER	ENDING OPERATION NUMBER	CHILD PROCESS INFORMATION			
					ITEM NUMBER	CHILD WCB	CHILD WCB DATE	
PCN NSN PIN								
PCN NSN PIN								
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PCN NSN PIN								
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PCN NSN PIN								

VOIDED BY XLLR

MANPOWER PROFILE

NAME	ALC	DATE	RCC	SHEET	OF	ALTERNATE SKILL CODE/LEVEL	MANPOWER AVAILABLE (HOURS)												
							QUANTITY AVAILABLE			WORK WEEK			WEEKEND			HOLIDAYS			
							WORK WEEK	WEEKEND	HOLIDAYS	WORK WEEK	WEEKEND	HOLIDAYS	WORK WEEK	WEEKEND	HOLIDAYS	WORK WEEK	WEEKEND	HOLIDAYS	
							1	2	3	1	2	3	1	2	3	1	2	3	
CT09			1988				1						5.8						
							2						5.8						
							3						5.8						
							4						5.8						
BY10							1						5.8						BY09
							2						5.8						
							3						5.8						
							4						5.8						
BY09							1						5.8						BY10
							2						5.8						
							3						5.8						
							4						5.8						
BY08							1						5.8						
							2						5.8						
							3						5.8						
							4						5.8						
BY06							1						5.8						
							2						5.8						
							3						5.8						
							4						5.8						

2854 INST REQ

MANPOWER PROFILE

SKILL CODE/LEVEL	JOB DESCRIPTION	1988 QUARTER		QUANTITY AVAILABLE						MANPOWER AVAILABLE (HOURS)						ALTERNATE SKILL CODE/LEVEL	
				WORK WEEK		WEEKEND		HOLIDAYS		WORK WEEK		WEEKEND		HOLIDAYS			
		1	2	1	2	3	1	2	3	1	2	3	1	2	3		
DY07	ELECTRICAL Equipment Repair	3	3														DY09 DY10
DY09	"	8	8														DY07 DY10
DY10	"	4	4														DY07 DY09
AY09	ELECTROMECH ACTUATOR REPAIR	11	11														AY10
AY10	ELECTROMECH ACTUATOR REPAIR TEST OPERATOR	5	5														

NAME SADIE McFARLAND DATE 5-19-89 RCC MAI PCC SHEET 1 OF 2

13.0 ADDITIONAL SUPPORT DATA

APPENDIX A - E046B STANDARDS, 1988, 1989

APPENDIX B - EARNED HOURS REPORT,
PROJECTED, 1988

APPENDIX C - ENGINEERING NOTES: POTENTIAL
IMPROVEMENT OPPORTUNITIES

5.1 PROFILE DATA FILES

The profile data files for RCC MATPCC were previously submitted under memo number NKE-E016-7605/REV. A, dated July 6, 1989/July 31, 1989.

5.2 MODEL INPUT FILES

The model input files for RCC MATPCC were previously submitted under memo number NKE-E016-7605/REV. A, dated July 6, 1989/July 31, 1989.

6.0 VALIDATION OF INPUT DATA

All profile data was validated in accordance with paragraph 7.2 and 7.3 of the Simulation Model Definition Document (SMDD). The profile data files included in this document were validated and accurately represent this RCC.

8.0 VALIDATION OF SIMULATION ANALYSIS

The validation of simulation analysis for RCC MATPCC was previously submitted under memo number NKE-E016-7605/REV. A, dated July 6, 1989/July 31, 1989.

9.0 BRAINSTORMING

The minutes for RCC MATPCC brainstorming were previously submitted under memo number NKE-E016-7605/REV. A, dated July 6, 1989/July 31, 1989.

MCDONNELL DOUGLAS

McDonnell Douglas Missile Systems Company

**RESPONSE
ACTION
ITEM
RESPONSE**
 YES NO

31 July 1989
NKE-E016-7605
Revision A

G. L. Dowdy
G. L. Dowdy

Subject: Contract F33600-88-D-0567, Technology Insertion Engineering Services, Submittal of Revised Validation Minutes

R. Downelly
R. Downelly

To: Department of the Air Force
Attention: Ms. J. Hoyt (PMRP)
Contracting Officer
Building 1, Area C
Wright-Patterson AFB, OH 45433-5320

Enclosure: (1) Task Order 1, Process Characterization, Validation of RCCs MABPF and MATPCC at OC-ALC, 26-27 June 1989

1. For documentation purposes, McDonnell Missile Systems Company (MDMSC) herein submits revised Enclosure (1) validation minutes. The revision adds: (1) an explanation of why MDMSC did not use historical data for validation, (2) a listing of historical versus standard (GO19) hours, and (3) historical data to the output report for each RCC.

2. Please address any questions or requests for additional information to the undersigned at (314)233-8724.

D. W. Engelbart
D. W. Engelbart
Senior Contracts Administrator
Advanced Programs

EC: Department of the Air Force
OC-ALC/MAWF
Attention: Mr. G. Leiterman
Tinker AFB, OK 73145

IC: F. Lauber *
D. Engelbart
Master Files
Contract Files

**AFTER FINAL
SIGNATURE
RETURN TO:**

Department of the Air Force
HQ AFLC/MAQF
Attention: Mr. Doxie Cripe
Building 262, Area A
Wright-Patterson AFB, OH 45433-5320

* Bldg. 92 Dist.

LETTER
ENCLOSURE

**PLACE ✓ NEXT TO LADDER SIGNATURE
IN APPROPRIATE BOX
IF COPY IS DESIRED**

MDE 14-27-1 (1 JUL 87)

MASTER FILE

0051P/85

P.O. Box 516, Saint Louis, MO 63166-0516 (314) 232-0232 TELEX 44-857

MEMO
31 Jul 89
TI-89-FJL-0219

Sub: TECHNOLOGY INSERTION-ENGINEERING SERVICES (TI-ES) TASK ORDER NO. 1,
REVISION "A" TO VALIDATION MINUTES FOR OC-ALC

To: R. G. Bolanos, R. Donnelly, Jr., G. L. Dowdy, G. Fallo, C. J. Gonzales,
M. S. McCoy, File

Encl: (1) Transmittal Letter NKE-E016-7605 Rev A, dtd 31 July 1989
(2) Task Order No. 1 Revised Validation Minutes for OC-ALC RCCs MABPFF
and MATPCC all without Computer Flat Files

1. Encl (1) and (2) are provided as internal distribution.
2. If you have any questions or comments, please contact me.



F. J. Lauber
T.I. Program Administration
E510/0922272, Sta. 925-5406

FJL:paw

OC/ALC

MATPCC

Intensive analysis of history data compiled from stamped WCDs indicates that this data is erroneous, and should not be used in validating the U00S 2.0 model for this RCC.

Occasional alignment between historical and simulated flow times are purely coincidental.

It was observed during validation that the utilization of G019C flow days was more realistic and more in line with the experiences of the ALC personnel who were part of the validation team.

The inaccuracy of the WCD history is directly related to:

1) System of WCD release:

- a) Copies are batch-pulled on a bi-weekly basis and at times on a quarterly basis.
- b) Block 5 date is actually the date printed and not the actual induction date.

2) WCD inconsistencies:

- a) In many cases the WCDs do not depict the real world processing flow and actually produce backtracking of date due to incorrect operation sequences.

3) Recording inconsistencies:

- a) Operations are all being stamped on the same date. Where there are flows through more than one operator, such as assy/check/assy, the date stamping is arbitrary at best.

Conclusion: It is the general opinion of ALC and MDMS personnel on the validation team that the WCD history is of little value and should be disregarded.

MATPCC

<u>ITEM</u>	<u>G019*</u>	<u>HISTORICAL FLOWTIME HOURS</u>
30011A	0.00	0.00
34055A	240.00	0.00
34103A	192.00	41.80
34327A	192.00	471.00
34510A	240.00	595.40
34512A	192.00	120.00
34522A	192.00	0.00
34544A	192.00	369.90
34549A	312.00	45.00
35096A	192.00	41.10
35097A	192.00	42.20
37649A	0.00	260.40
37730A	192.00	31.20
38664A	0.00	0.00
38666A	0.00	0.00
39602A	192.00	90.00
39706A	240.00	122.20
42089A	192.00	0.00
45362A	192.00	0.00
45387A	192.00	0.00
48371A	192.00	0.00
48451A	192.00	0.00
48561A	192.00	0.00
48563A	192.00	0.00
49582A	192.00	0.00
61132A	0.00	205.60
61207A	192.00	0.00
61264A	192.00	0.00
95015A	0.00	342.00
95038A	0.00	120.60
95052A	0.00	448.70
95058A	0.00	305.80
95086A	0.00	153.90
95104A	0.00	0.00
95108A	0.00	277.10
95111A	0.00	2388.50
95131A	0.00	260.80
95133A	0.00	2681.60
95188A	0.00	2622.00
95333A	0.00	272.00
96524A	0.00	45.50

*SEE NOTE IN MINUTES REGARDING ITEMS WITH NO VALUE FOR G019.

0051P/70

MATPCC

28 June 89

I. INTRODUCTION

1. Gene Leiterman briefed UDOS/ Model, included:

- A) Model Objectives
- B) Validation Criteria
- C) Data Collection / Model Operation

2. Ricardo Bolanos briefed problems with MATPCC, included:

- A) Lack of History Data/need to use standard flow times.
- B) High variance between models' average flow times and standard flow times.

3. Greg John briefed model Flat File organization and how to interpret the printouts.

II. All model average flow times were at extreme variance with the standard flow times captured during RCC characterization. Rick Tison explained that the standard flow times were incorrect and provided a copy of the G019C report showing correct standard flow times. This reduced variance in some instances but not enough for acceptance.

III. George Branson explained that the items shown here on list #1 are not prime to MATPCC. This means that the standard flow time includes a great percentage of time not charged to MATPCC. He estimated that all these parts spent between 2 - 4 days in MATPCC.

All these items had modeled flow times of 2 - 4 days. These PCN'S were determined to be acceptable. PCN'S number 38664 and 38666 showed simulated flow times of 7.2 hours. This was identified as acceptable by George Branson (these PCN'S are normally completed in one shift).

- IV. Considerable discussssion took place regarding "in" times on the remaining PCN'S. George Branson explained that these parts are inducted in batches on a 2 week cycle. They are grouped by PCN and repaired by one mechanic. The parts may wait a week or longer before their first repair operation. It was determined that the current "in" time of 16 hours mandatory flow time should be increased to 96. MDMSC will make this change and conduct a new model run.

MATPCC

29 June 89

- I. All required changes to the data were made and a new model run performed. The addition of mandatory flow time of the "IN" operation produced large queues for many parts. This was alleivated by distributing the "IN" flow time uniformly between 24 and 168 hours. This substantially reduced the variance across the remaining MISTR parts.
- II. The meeting was resumed at 13:00. Several items were accpeted:
1. George Banson identified PCN 34327 as a MISTR item (it was previously shown as a backshop item on list #1). When the appropriate "IN" flow time was added, the variance between

PCN LIST #1

30011

34327

REMOVED FROM LIST

37649

61132

95015

95058

95052

95058

95086

95104

95108

95111

95131

95133

95188

95333

96524

model and standard flow times was reduced to acceptability.

2. George Branson identified the backshop hours for PCN 34510 as excessive. When they were reduced to 48-72 hour, this item became acceptable.
 3. Those PCN'S shown on list #2 were identified as "High - Dollar" items. George Branson explained that these items are worked on a rigid schedule and could be expected to be completed ahead of the standard flow times. George requested that MDMSC reduce the "IN" flow time distribution by two days.
- III. Some errors were found in the Equipment Profile. MDMSC will correct these errors and conduct a new model run.

MATPCC

30 June 89

- I. All required changes were made and a new model run performed. All variances were examined by MATPCC supervisors and planners. All variances were considered acceptable.
- II. A Brainstorming session was conducted. The items on list #3 were accepted as suitable candidates for model experimentation. Mark Thornton accepted an action item to gather data on appropriate levels for each factor in a Taguchi Array.

MATPCC

28 June 89

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE NUMBER</u>
GREG GARDNER	MDMSC	62873
GUY FALLO	MDMSC	62873
RICK TISON	MATEFI	62647
MARK THORNTON	MATEE	62617
GENE LEITERMAN	MAWF	67981
HERMAN SEARCY	MATPCC	67481
GREG JOHN	MDMSC	(314) 925-5852
RICARDO BOLANOS	MDMSC	(314) 925-5840
GEORGE BRANSON	MATPCC	67481

29 June 89

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE NUMBER</u>
GREG GARDNER	MDMSC	62873
GREG JOHN	MDMSC	925-5852
GEORGE BRANSON	MATPCC	67481
MARK THORNTON	MATEE	65568
GUY FALLO	MDMSC	62873
RICARDO BOLANOS	MDMSC	925-5840

TASK ORDER 1 PROCESS CHARACTERIZATION
VALIDATION MEETING MINUTES

MATPCC

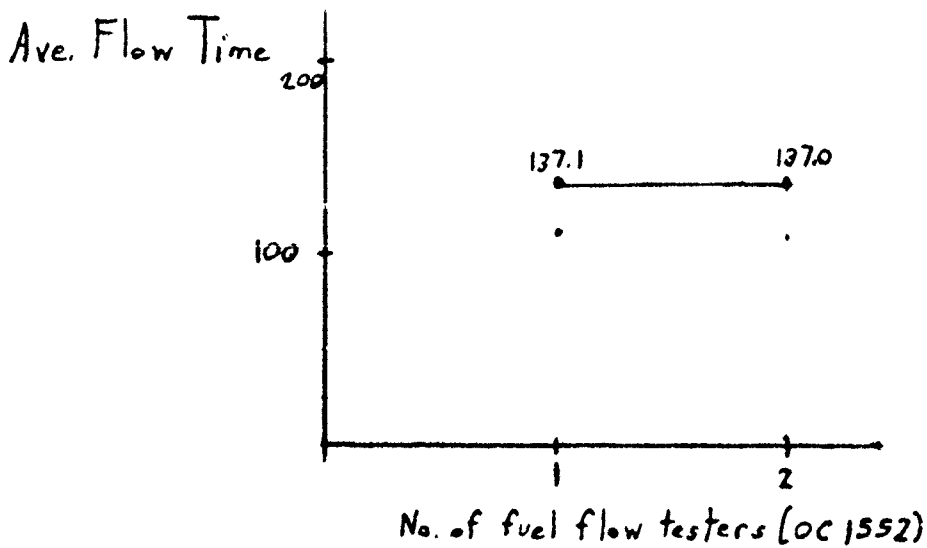
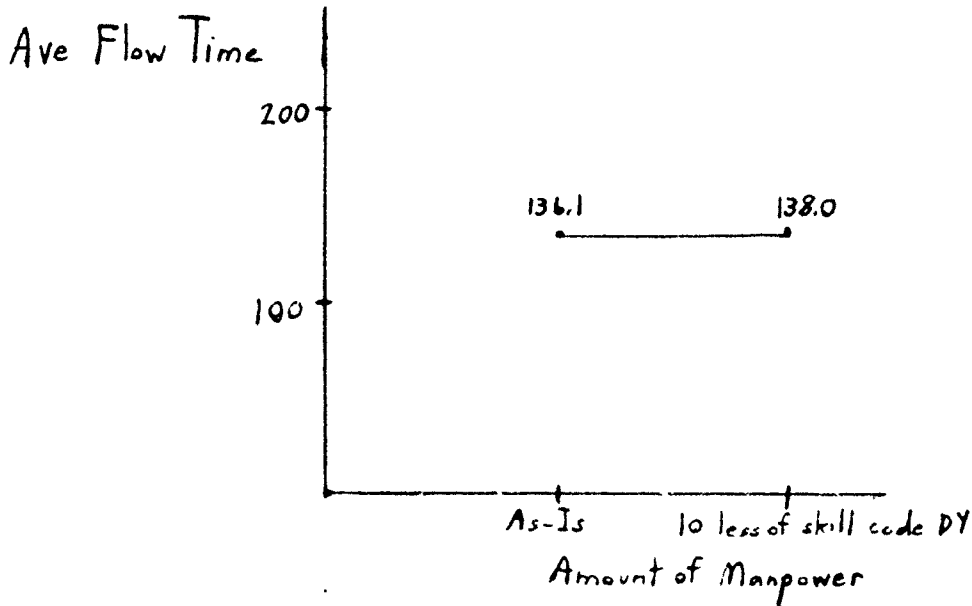
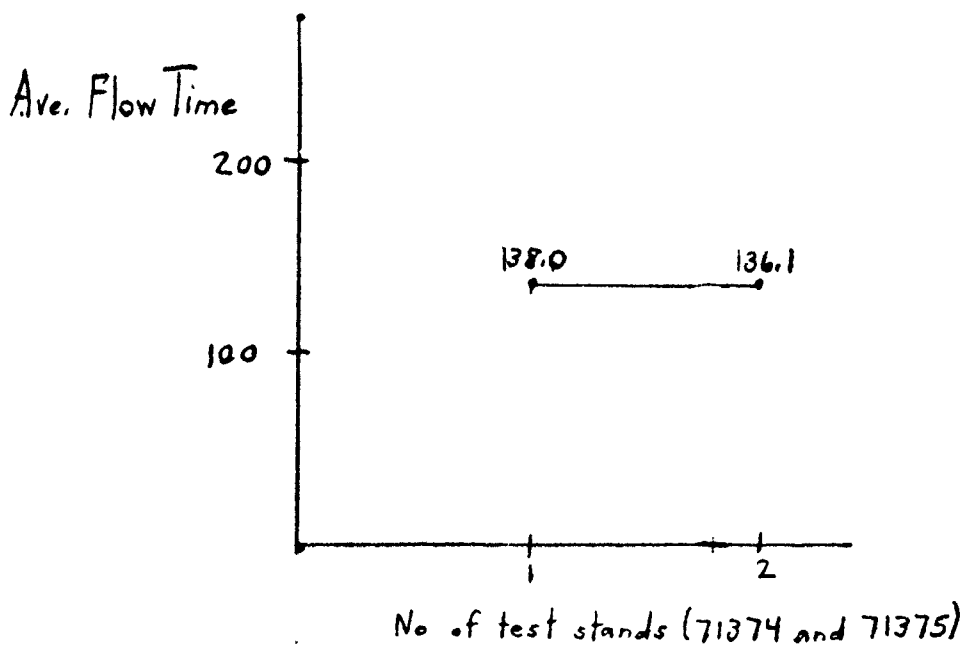
30 June 89

<u>NAME</u>	<u>COMPANY</u>	<u>PHONE</u>
RICARDO BOLANOS	MDMSC	(314) 925-5840
MARK THORNTON	MATEE	736-5568
RICK TISON	MATEFI	62647
HERMAN SEARCY	MATPCC	67588
JEREMIAH MURPHY	MATEAC	65920
GREG JOHN	MDMSC	(314) 925-5852
GREG GARDNER	MCMSC	62873
PAMELA HAWKINS	MATPCC	65720
GUY FALLO	MDMSC	62873

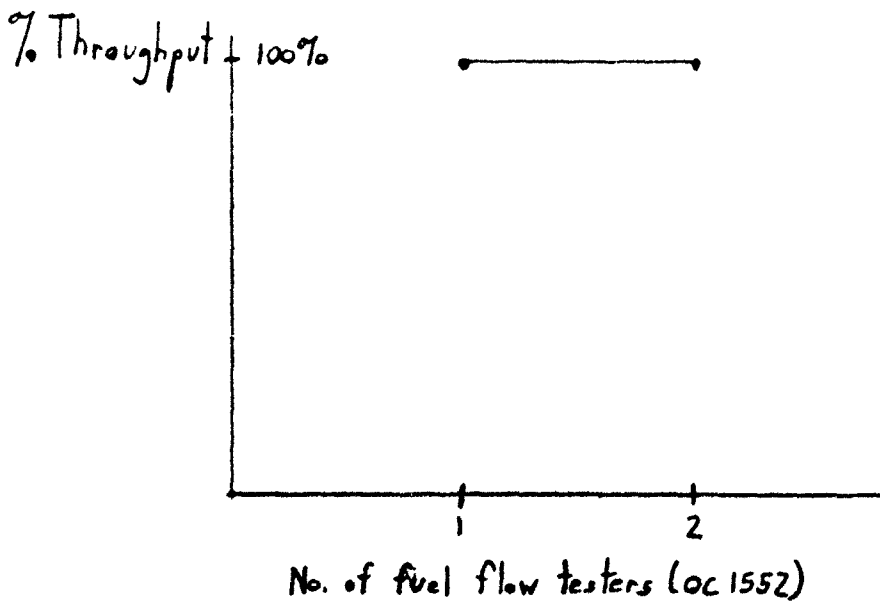
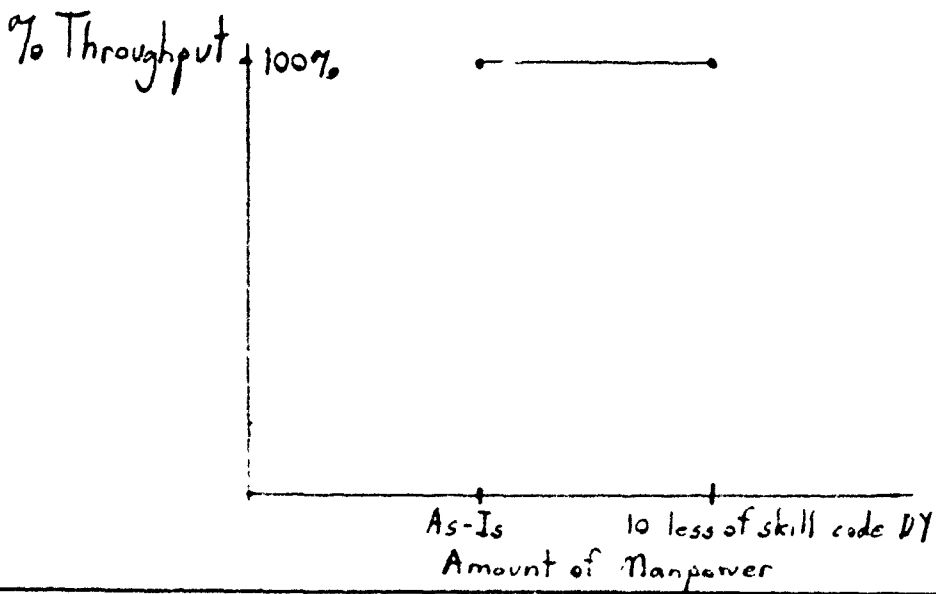
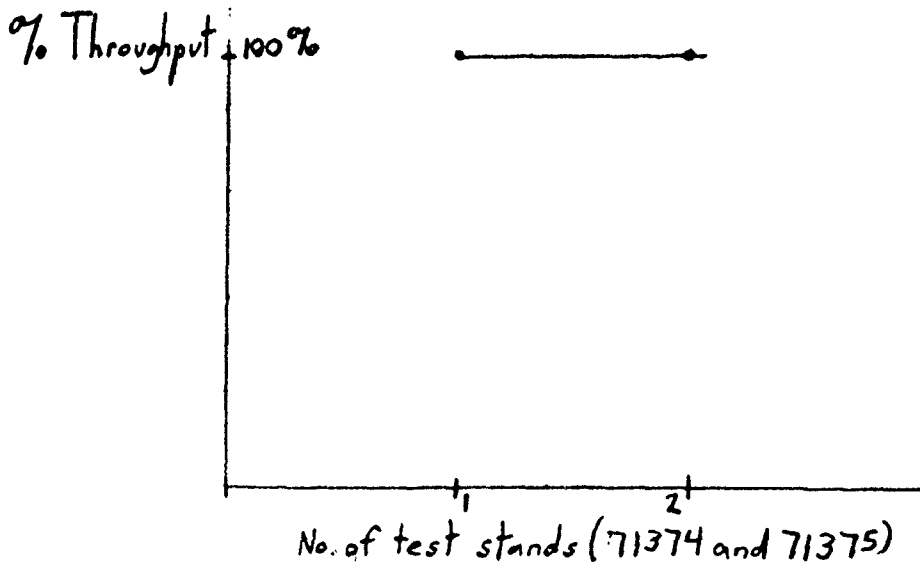
Flow Time Variances for MATPCC

PCN	Simulated Flow Time Hours	Actual Hours	Simulated vs. Actual Variance (%)
30011A	39.78	48.0	-17.1
34055A	241.68	240.0	0
34103A	194.25	192.0	0
34327A	117.07	192.0	-39.0
34510A	327.92	240.0	26.8
34512A	128.83	192.0	-32.9
34522A	108.92	192.0	-43.3
34544A	137.33	192.0	-28.5
34549A	276.76	312.0	-11.3
35096A	133.11	192.0	-30.7
35097A	169.77	192.0	-11.6
37649A	60.73	48.0	21.0
37730A	141.16	192.0	-26.5
38664A	76.0	24.0	-68.3
38666A	7.33	24.0	-69.5
39602A	214.15	192.0	10.3
39706A	213.77	240.0	-10.9
42089A	179.20	192.0	-6.7
45362A	201.94	192.0	4.9
45387A	249.71	192.0	23.1
48371A	215.24	192.0	10.8
48451A	275.63	192.0	30.3
48561A	251.34	192.0	23.6
48563A	257.20	192.0	25.3
49582A	177.06	192.0	-7.8
61132A	110.21	96.0	12.9
61207A	202.47	192.0	5.2
61224A	256.94	192.0	25.3
95015A	52.40	48.0	8.4
95038A	49.92	48.0	3.8
95052A	68.08	48.0	29.5
95058A	57.44	48.0	16.4
95086A	65.79	48.0	27.0
95104A	66.30	48.0	27.6
95108A	49.41	48.0	2.9
95111A	95.85	48.0	49.9
95131A	63.86	48.0	24.8
95133A	56.96	48.0	15.7
95188A	73.59	48.0	34.8
95333A	56.97	48.0	15.7
95524A	58.53	48.0	18.0

Factor Diagrams for Flow Times for MATPCC



Factor Diagrams for Throughput for MATPCC



DOUGHERTY EXPERIMENT ANALYSIS

LC: OC REC: MATPCU PCN: 10011A
 U4 ARRAY FILE: PCC39011A
 01-Jan-80

RUN NO.	FACTOR LEVEL		C	FLOW TIME THRU PUT RESULT	THRU PUT INDUCED FOR RUN	TOTAL NET	FACTOR	FLOW TIME		THRU PUT	
	A	B						EFFECT PERCENT	PERCENT	EFFECT PERCENT	PERCENT
1	1	1	1	39	99	99	1	39.9	1.26	1.00	0.00
2	1	2	2	41	88	88	2	40.9	-1.26	1.00	0.00
3	2	1	2	41	88	88	1	39.9	1.12	1.00	0.00
4	2	2	1	41	88	88	2	40.9	-1.12	1.00	0.00
TOTAL				162	363	363	?	40.9	-1.16	1.00	0.00
AVERAGE				40.4	90.8	90.8		40.4	0.00	1.00	0.00
MAXIMUM				41	99	99		40.9	1.26	1.00	0.00
MINIMUM				39	88	88		39.9	-1.26	1.00	0.00

BUCHI EXPERIMENT ANALYSIS

14 ARRAY 01-Jan-80

DC RCC : NATPCC PCN: 34055A

FILE : PCC34055

UN NO.	LEVEL	LEVEL	LEVEL	LEVEL	TOTAL	NET	FACTOP	FLOW TIME	THRU PUT					
A	B	C	RESULT	THRU PUT	INDUCTED	THRU PUT	EFFECT PERCENT	EFFECT PERCENT	EFFECT PERCENT					
1	1	1	227	1.00	59	59	A 1	235.2	1.03	1.00				
2	1	2	244	1.00	63	63	A 2	240.1	-1.03	1.00				
3	2	1	238	1.00	53	63	B 1	232.4	2.23	1.00				
4	2	2	242	1.00	63	63	B 2	243.0	2.23	1.00				
							C 1	234.4	1.37	1.00				
							C 2	240.9	-1.37	1.00				
TOTAL							951	4.00	248	248				
AVERAGE							237.7	1.00	62.0	62.0	237.7	0.00	1.00	0.00
MAXIMUM							244	1.00	63	63	243.0	2.23	1.00	0.00
MINIMUM							227	1.00	59	59	232.4	-2.23	1.00	0.00

SCUCCI EXPERIMENT ANALYSIS

OC : OC ROC : MATCC PCN: 24107A L4 APPAY 01-Jan-89 FILE : PCC34103

RUN NO.	FACTOR LEVEL			FLOW TIME THRU PUT RESULT	THRU PUT INDUCED FOR RUN	TOTAL HCT	FLOW TIME		THRU PUT	
	A	B	C				EFFECT PERCENT	PERCENT	EFFECT PERCENT	PERCENT
1	1	1	1	184	43	43	194.6	0.68	1.00	0.00
2	1	2	2	205	40	40	197.2	-0.68	1.00	0.00
3	2	1	2	195	40	40	189.4	3.34	1.00	0.00
4	2	2	1	200	40	40	202.4	-3.34	1.00	0.00
TOTAL				784	163	163	195.9	0.00	1.00	0.00
AVERAGE				195.9	40.8	40.8	202.4	3.34	1.00	0.00
MAXIMUM				205	43	43	189.4	-3.34	1.00	0.00
MINIMUM				184	40	40	200.0	2.09	1.00	0.00

YAGUCHI EXPERIMENT ANALYSIS

LC : DC RCC : MATPCC PCN: 34327A

LA ARRAY 91-Jan-80

FILE : PCD34327

RUN NO.	FACTOR LEVEL			FLOW TIME RESULT	THRU PUT RESULT	INDUCTED FOR RUN	NET FOR RUN	THRU PUT	FLOW TIME EFFECT PERCENT		THRU PUT EFFECT PERCENT	
	A	B	C						EFFECT	PERCENT	EFFECT	PERCENT
1	1	1	1	120	1.00	85	85	118.8	-1.17	1.00	0.00	
2	1	2	2	117	1.00	74	74	116.0	1.17	1.00	0.00	
3	2	1	2	121	1.00	74	74	120.8	-2.92	1.00	0.00	
4	2	2	1	111	1.00	74	74	114.0	2.92	1.00	0.00	
TOTAL				470	4.00	307	307	117.4	0.00	1.00	0.00	
AVERAGE				117.4	1.00	76.8	76.8	120.8	2.92	1.00	0.00	
MAXIMUM				121	1.00	85	85	114.0	-2.92	1.00	0.00	
MINIMUM				111	1.00	74	74	114.0	-2.92	1.00	0.00	

LAGUCHI EXPERIMENT ANALYSIS
 FILE : PCC34510

91-Jan-80
 L4 ARRAY

DC
 RCC 1 MATPCC PCN: 34510A

RUN NO.	FACTOR LEVEL		RESULT	THRU PUT	INDUCTED FOR RUN	NET	FACTOR	FLOW TIME		THRU PUT	
	A	B						EFFECT PERCENT	PERCENT	EFFECT PERCENT	PERCENT
1	1	1	323	1.00	40	40	A 1	324.3	-1.12	1.00	0.00
2	1	2	325	1.00	37	37	A 2	317.1	1.12	1.00	0.00
3	2	1	326	1.00	37	37	B 1	324.4	-1.17	1.00	0.00
4	2	2	309	1.00	37	37	B 2	316.9	1.17	1.00	0.00
							C 1	315.9	1.48	1.00	0.00
							C 2	325.4	-1.48	1.00	0.00
			TOTAL	1233	4.00	151					
			AVERAGE	320.7	1.00	37.8		320.7	0.00	1.00	0.00
			MAXIMUM	326	1.00	40		325.4	1.48	1.00	0.00
			MINIMUM	309	1.00	37		315.9	-1.48	1.00	0.00

ASUCHI EXPERIMENT ANALYSIS

LC : OC RCC : MATPCC PCN: 30512A 14 SPRAY 91-Jan-80 FILE : PCC34512

RUN NO.	FACTOR LEVEL			TOTAL NET	FLOW TIME THRU PUT INDUCED THRU PUT RESULT	THRU PUT RESULT FOR RUN	FACTOR	FLOW TIME		THRU PUT	
	A	B	C					EFFECT PERCENT	EFFECT PERCENT	EFFECT PERCENT	EFFECT PERCENT
1	1	1	1	219	125	219	A 1	126.1	0.29	1.00	0.00
2	1	2	2	207	128	207	A 2	126.8	-0.29	1.00	0.00
3	2	1	2	207	126	207	B 1	125.3	0.95	1.00	0.00
4	2	2	1	207	128	207	B 2	127.7	-0.95	1.00	0.00
				840	126.5	840	C 1	126.1	0.26	1.00	0.00
				840	126.8	840	C 2	126.8	-0.26	1.00	0.00
TOTAL				840	126.5	840		126.5	0.00	1.00	0.00
AVERAGE				210.0	126.5	210.0		126.5	0.00	1.00	0.00
MAXIMUM				219	128	219		127.7	0.95	1.00	0.00
MINIMUM				207	125	207		125.7	-0.95	1.00	0.00

ASUCHI EXPERIMENT ANALYSIS

LC : DC RCC : MATPCC PCN: 34522A L4 GRRAY 01-Jan-80 FILE : PCC34522

RUN NO.	LEVEL	A	B	C	FLOW TIME	THRU PUT	RESULT	INDUCTED	NET	TOTAL	FOR RUN	THRU PUT	FLOW TIME	EFFECT	PERCENT	THRU PUT	EFFECT	PERCENT
1	1	1	1	1	115	1.00	93	93	93	93	93	114.2	0.34	1.00	0.00	1.00	0.00	
2	1	2	1	1	113	1.00	81	81	81	81	81	114.9	-0.34	1.00	0.00	1.00	0.00	
3	2	1	2	1	115	1.00	81	81	81	81	81	115.1	-0.48	1.00	0.00	1.00	0.00	
4	2	2	1	1	115	1.00	81	81	81	81	81	114.0	0.48	1.00	0.00	1.00	0.00	
TOTAL					458	4.00	336	336	336	336	336	114.6	0.00	1.00	0.00	1.00	0.00	
AVERAGE					114.6	1.00	84.0	84.0	84.0	84.0	84.0	114.6	0.00	1.00	0.00	1.00	0.00	
MAXIMUM					115	1.00	93	93	93	93	93	115.1	0.48	1.00	0.00	1.00	0.00	
MINIMUM					113	1.00	81	81	81	81	81	114.0	-0.48	1.00	0.00	1.00	0.00	

DOUCHI EXPERIMENT ANALYSIS

REC : OC RCC : MATPCC PCN: 34544A L4 ARRAY 01-Jan-80 FILE : P0034544

RUN NO.	FACTOR LEVEL			TOTAL NET	FLOW TIME THRU PUT RESULT	FLOW TIME THRU PUT INDICATED	THRU PUT FOR RUN	THRU PUT FOR RUN	FLOW TIME		THRU PUT	
	A	B	C						EFFECT PERCENT	EFFECT PERCENT	EFFECT PERCENT	EFFECT PERCENT
1	1	1	1	211	137	0.90	211	189	135.4	1.73	0.95	-5.50
2	1	2	2	211	134	1.00	211	211	140.2	-1.73	1.06	5.50
3	2	1	2	211	137	1.00	211	211	137.1	0.57	0.95	-5.50
4	2	2	1	189	144	1.12	189	211	138.6	-0.57	1.06	5.50
				822	551	4.01	822		140.4	-1.83	1.01	0.30
				822					135.3	1.83	1.00	-0.30
TOTAL				822	551	4.01	822		137.8	0.00	1.00	0.00
AVERAGE				205.5	137.8	1.00	205.5	205.5	137.8	0.00	1.00	0.00
MAXIMUM				211	144	1.12	211	211	140.4	1.83	1.06	5.50
MINIMUM				189	134	0.90	189	189	135.3	-1.83	0.95	-5.50

SUCHI EXPERIMENT ANALYSIS

C : OC RCC : MATPCC PCN: 13749A FILE : PCC34589 61-Jan-80

RUN NO.	LEVEL	FACTOR		THRU PUT	RESULT	INDUCED	FOR RUN	NET	FOR RUN	THRU PUT	FLOW TIME		THRU PUT	
		A	B								EFFECT	PERCENT	EFFECT	PERCENT
1	1	1	1	62	261	1.00	62	62	62	62	274.8	1.24	1.00	0.00
2	1	2	2	52	289	1.00	52	52	52	52	291.7	-1.24	1.00	0.00
3	2	1	2	52	284	1.00	52	52	52	52	272.3	2.16	1.00	0.00
4	2	2	1	52	280	1.00	52	52	52	52	284.2	-2.16	1.00	0.00
TOTAL				218	1113	4.00	218	218	218	218	278.7	0.00	1.00	0.00
AVERAGE				54.5	278.3	1.00	54.5	54.5	54.5	54.5	278.7	0.00	1.00	0.00
MAXIMUM				62	289	1.00	62	62	62	62	291.7	-1.24	1.00	0.00
MINIMUM				52	261	1.00	52	52	52	52	270.1	-2.92	1.00	0.00

YASUICHI EXPERIMENT ANALYSIS

PLC : DC RCC : MATPC PCN: J5095A L4 ARRAY 01-Jan-80 FILE : PCT5095

RUN NO.	FACTOR LEVEL			TOTAL	NET	THRU PUT	RESULT	FLOW TIME	INDUCTED	THRU PUT	FOR RUN	FOR RUN	THRU PUT	EFFECT	PERCENT	THRU PUT	EFFECT	PERCENT
	A	B	C															
1	1	1	1	130	106	106	1.00	130	106	106	A 1	106	106	1.00	0.00	1.00	1.00	0.00
2	1	2	2	138	104	104	1.00	138	104	104	A 2	104	104	1.00	0.00	1.00	1.00	0.00
3	2	1	2	136	104	104	1.00	136	104	104	B 1	104	104	1.00	0.00	1.00	1.00	0.00
4	2	2	1	133	104	104	1.00	133	104	104	B 2	104	104	1.00	0.00	1.00	1.00	0.00
											C 1	104	104	1.00	0.00	1.00	1.00	0.00
											C 2	104	104	1.00	0.00	1.00	1.00	0.00
				537	418	418	4.00	537	418	418								
				AVERAGE	134.2	104.5	1.00	134.2	104.5	104.5				134.2	0.00	1.00	1.00	0.00
				MAXIMUM	138	106	1.00	138	106	106				137.1	2.16	1.00	1.00	0.00
				MINIMUM	130	104	1.00	130	104	104				131.3	-2.16	1.00	1.00	0.00

TRBUCHI EXPERIMENT ANALYSIS

LC : DC RCC : MATPCC PCN: 75097A

L4 ARPAY 01-Jan-80

FILE : PCC35097

RUN NO.	FACTOR LEVEL			TOTAL	NET	FLOW TIME RESULT	THRU PUT RESULT FOR RUN	INDUCTED THRU PUT	FACTOR	FLOW TIME		THRU PUT	
	A	B	C							EFFECT	PERCENT	EFFECT	PERCENT
1	1	1	1	40	1.00	162	40	40	A 1	164.6	-1.09	1.00	0.00
2	1	2	2	50	1.00	167	50	50	A 2	161.0	1.09	1.00	0.00
3	2	1	2	50	1.00	166	50	50	B 1	163.9	-0.66	1.00	0.00
4	2	2	1	50	1.00	156	50	50	B 2	161.7	0.66	1.00	0.00
									C 1	159.0	2.31	1.00	0.00
									C 2	166.6	-2.31	1.00	0.00
				TOTAL	4.00	651	190	190					
				AVERAGE	1.00	162.8	47.5	47.5		162.8	0.00	1.00	0.00
				MAXIMUM	1.00	167	50	50		166.6	2.31	1.00	0.00
				MINIMUM	1.00	156	40	40		159.0	2.31	1.00	0.00

BUCHI EXPERIMENT ANALYSIS

OC : RCC : MATPCC PCN: 37649A

LA ARRAY 01-Jan-80
FILE : PCC37649

RUN NO.	FACTOR LEVEL			TOTAL	NET	THRU PUT	RESULT	FLOW TIME	EFFECT	PERCENT	THRU PUT	EFFECT	PERCENT
	A	B	C										
1	1	1	1	227	227	227	63	1.00	62.3	-0.96	1.00	1.00	0.00
2	1	2	2	204	204	204	62	1.00	61.1	0.96	1.00	1.00	0.00
3	2	1	2	204	204	204	61	1.00	61.8	-0.17	1.00	1.00	0.00
4	2	2	1	204	204	204	61	1.00	61.6	0.17	1.00	1.00	0.00
TOTAL				839	839		247	4.00	61.7	0.00	1.00	1.00	0.00
AVERAGE				209.8	209.8		61.7	1.00	62.3	0.96	1.00	1.00	0.00
MAXIMUM				227	227		63	1.00	61.1	-0.96	1.00	1.00	0.00
MINIMUM				204	204		61	1.00	61.6	0.17	1.00	1.00	0.00

SUCHE EXPERIMENT ANALYSIS
 RCC : MATPC PCN: 35664A
 L3 ARRAY 01-Jan-80
 FILE : PCC38664

IN NO.	FACTOR LEVEL			FLOW TIME	RESULT	THRU PUT	INDUCTED	NET	FLOW TIME		THRU PUT	
	A	B	C						EFFECT	PERCENT	EFFECT	PERCENT
1	1	1	1	7	1.00	60	60	249	7.5	-0.40	1.00	0.00
2	1	2	2	8	1.00	63	63	249	7.4	0.40	1.00	0.00
3	2	1	2	7	1.00	63	63	249	7.4	1.08	1.00	0.00
4	2	2	1	8	1.00	63	63	249	7.5	-1.08	1.00	0.00
TOTAL				30	4.00	249	249		7.4	0.27	1.00	0.00
AVERAGE				7.4	1.00	62.3	62.3		7.4	0.60	1.00	0.00
MAXIMUM				8	1.00	63	63		7.5	1.08	1.00	0.00
MINIMUM				7	1.00	60	60		7.4	-1.08	1.00	0.00

TSUCHI EXPERIMENT ANALYSIS

PC : DC RCC : MATPCC PCN: 37602A

L4 ARRAY 01-Jan-80
FILE : PCC79602

RUN NO.	FACTOR LEVEL			RESULT	THRU PUT	NET	FOR RUN	THRU PUT	EFFECT	PERCENT	THRU PUT	EFFECT	PERCENT
	A	B	C										
1	1	1	1	205	1.00	46	46	205	2.39	0.00	1.00	2.39	0.00
2	1	2	2	199	1.00	46	46	212.3	2.39	0.00	1.00	2.39	0.00
3	2	1	2	201	1.00	46	46	203.3	1.91	0.00	1.00	1.91	0.00
4	2	2	1	223	1.00	46	46	211.2	-1.91	0.00	1.00	-1.91	0.00
TOTAL				829	4.00	184	184	207.3	0.00	0.00	1.00	0.00	0.00
AVERAGE				207.3	1.00	46.0	46.0	214.2	3.34	0.00	1.00	3.34	0.00
MAXIMUM				223	1.00	46	46	200.4	-3.34	0.00	1.00	-3.34	0.00
MINIMUM				199	1.00	46	46						

TAGUCHI EXPERIMENT ANALYSIS

ALC - OC RCC : MATPCC PCN: 39706A

L4 ARRAY

01-Jan-80

FILE : PCC39706

RUN NO.	FACTOR LEVEL		C	FLOW TIME	THRU PUT	RESULT	TOTAL	NET	FOR RUN	FOR RUN	THRU PUT	EFFECT	PERCENT	EFFECT	PERCENT
	A	B													
1	1	1	1	222	1.00	93	97	220.4	-1.16	1.00	0.00	1.00	0.00		
2	1	2	2	218	1.00	78	78	215.3	1.16	1.00	0.00	1.00	0.00		
3	2	1	2	214	1.00	78	78	218.5	-0.27	1.00	0.00	1.00	0.00		
4	2	2	1	216	1.00	78	78	217.7	0.27	1.00	0.00	1.00	0.00		
								219.4	-0.69	1.00	0.00	1.00	0.00		
								216.4	0.48	1.00	0.00	1.00	0.00		
								872	4.00	327	327				
								217.9	1.00	81.8	91.9	217.9	0.00	1.00	0.00
								222	1.00	97	97	220.4	1.16	1.00	0.00
								214	1.00	78	78	215.3	-1.16	1.00	0.00

ASUCHI EXPERIMENT ANALYSIS

LC : OC RCC : MATPCC PCN: 4209RA I.4 APPAY 01-Jan-80

FILE : P004208F

RUN NO.	LEVEL	FACTOR	C	FLOW TIME	THRU PUT	TOTAL		FLOW TIME		THRU PUT	
						RESULT	NET	EFFECT	PERCENT	EFFECT	PERCENT
1	1	1	1	174	1.00	252	252	177.7	0.40	1.00	0.00
2	1	2	2	181	1.00	269	269	179.1	-0.40	1.00	0.00
3	2	1	2	176	1.00	269	269	174.3	1.95	1.00	0.00
4	2	2	1	183	1.00	269	269	181.8	-1.95	1.00	0.00
TOTAL				713	4.00	1059	1059	178.4	0.00	1.00	0.00
AVERAGE				178.4	1.00	264.8	264.8	181.9	1.95	1.00	0.00
MAXIMUM				183	1.00	269	269	174.9	-1.95	1.00	0.00
MINIMUM				174	1.00	252	252				

BUCHI EXPERIMENT ANALYSIS

OC : RCC : MATPCC PCN: 453424

LA GRAY 01-Jan-89

FILE: PCC45352

RUN NO.	FACTOR LEVEL			TOTAL NET	FLOW TIME THRU PUT INDUCED THRU PUT RESULT	FACTOR	FLOW TIME		THRU PUT			
	A	B	C				EFFECT PERCENT	EFFECT PERCENT	EFFECT PERCENT	EFFECT PERCENT		
1	1	1	1	113	208	0 1	206.4	-0.17	1.00	0.00		
2	1	2	2	117	204	4 2	205.7	0.17	1.00	0.00		
3	2	1	2	117	203	0 1	205.5	0.29	1.00	0.00		
4	2	2	1	117	209	0 2	206.6	-0.29	1.00	0.00		
						0 1	208.6	-1.23	1.00	0.00		
						0 2	203.5	1.23	1.00	0.00		
				TOTAL	824	4.00	464					
				AVERAGE	206.0	1.00	116.0	116.0	206.0	0.00	1.00	0.00
				MAXIMUM	209	1.00	117	117	209.6	1.23	1.00	0.00
				MINIMUM	203	1.00	113	113	203.5	-1.23	1.00	0.00

TRACHT EXPERIMENT ANALYSIS

ALC : OC RCC : MATPCC PCK: 45387A L4 80QAY 01-Jan-80 FILE : PCC45387

RUN NO.	FACTOR LEVEL			RESULT	THRU PUT	NET	FLOW TIME		THRU PUT	
	A	B	C				EFFECT	PERCENT	EFFECT	PERCENT
1	1	1	1	204	1.00	168	204.4	0.71	1.00	0.00
2	1	2	2	205	1.00	159	207.5	-0.71	1.00	0.00
3	2	1	2	201	1.00	159	202.5	1.72	1.00	0.00
4	2	2	1	214	1.00	159	209.6	-1.72	1.00	0.00
TOTAL				824	4.00	645	206.1	0.00	1.00	0.00
AVERAGE				206.1	1.00	161.2	206.1	0.00	1.00	0.00
MAXIMUM				214	1.00	166	209.6	1.72	1.00	0.00
MINIMUM				201	1.00	159	202.5	-1.72	1.00	0.00

TAGUCHI EXPERIMENT ANALYSIS

ALC : DC

RCC : MATPC

PCN : 48371A

L4 ARRAY

01-Jan-80

FILE : PCC48371

RUN NO.	LEVEL	A	B	C	FLOW TIME	THRU	PUT	TOTAL	NET
					RESULT	RESULT	INDUCTED	FOR RUN	THRU PUT
1	1	1	1	1	212	1.00	98	98	98
2	1	2	2	2	219	1.00	109	109	109
3	2	1	2	2	217	1.00	109	109	109
4	2	2	1	1	217	1.00	109	109	109
TOTAL					864	4.00	425	425	
AVERAGE					216.0	1.00	106.3	106.3	
MAXIMUM					219	1.00	109	109	
MINIMUM					212	1.00	98	98	

FACTOR	THRU	PUT	EFFECT	PERCENT	THRU	PUT	EFFECT	PERCENT
A 1	215.3	0.36	1.00	0.00	1.00	0.00	1.00	0.00
A 2	216.8	-0.36	1.00	0.00	1.00	0.00	1.00	0.00
B 1	214.3	0.80	1.00	0.00	1.00	0.00	1.00	0.00
B 2	217.8	-0.80	1.00	0.00	1.00	0.00	1.00	0.00
C 1	214.3	0.81	1.00	0.00	1.00	0.00	1.00	0.00
C 2	217.8	-0.81	1.00	0.00	1.00	0.00	1.00	0.00

FACTOR	THRU	PUT	EFFECT	PERCENT
AVERAGE	216.0	0.00	1.00	0.00
MAXIMUM	217.8	0.81	1.00	0.00
MINIMUM	214.3	-0.81	1.00	0.00

TRABUCHI EXPERIMENT ANALYSIS
 ALC : DC

RCC : NATPCC

PCK :

48451A

L4 ARRAY

01-Jan-80

FILE : PCC48451

RUN NO.	LEVEL	FACTOR	LEVEL	RESULT	THRU PUT	INDUCTED	THRU PUT	NET	FACTOR	FLOW TIME	EFFECT	PERCENT	THRU PUT	EFFECT	PERCENT
1	1	A	1	230	1.00	105	105	105	A 1	236.8	-0.48	1.00	1.00	0.00	0.00
2	1	B	2	243	1.00	120	120	120	A 2	234.6	0.48	1.00	1.00	0.00	0.00
3	2	A	1	230	1.00	120	120	120	B 1	230.4	2.26	1.00	1.00	0.00	0.00
4	2	B	2	239	1.00	120	120	120	B 2	241.0	-2.26	1.00	1.00	0.00	0.00
TOTAL				943	4.00	465	465	465	C 1	234.7	0.43	1.00	1.00	0.00	0.00
									C 2	236.7	-0.43	1.00	1.00	0.00	0.00
AVERAGE				235.7	1.00	116.3	116.3	116.3		235.7	0.00	1.00	1.00	0.00	0.00
MAXIMUM				243	1.00	120	120	120		241.0	2.26	1.00	1.00	0.00	0.00
MINIMUM				230	1.00	105	105	105		230.4	-2.26	1.00	1.00	0.00	0.00

TAGUCHI EXPERIMENT ANALYSIS

ALC : DC

RCC : MATPCC

PCN :

48561A

L4 ARRAY

01-Jan-80

FILE : PCC48561

RUN NO.	FACTOR LEVEL			FLOW TIME RESULT	THRU PUT RESULT	TOTAL INDUCED FOR RUN	NET FOR RUN	FLOW TIME EFFECT		THRU PUT EFFECT	
	A	B	C					EFFECT PERCENT	EFFECT PERCENT		
1	1	1	1	253	1.00	23	23	258.0	0.07	1.00	0.00
2	1	2	2	263	1.00	21	21	258.3	-0.07	1.00	0.00
3	2	1	2	251	1.00	21	21	252.0	2.39	1.00	0.00
4	2	2	1	266	1.00	21	21	264.3	-2.39	1.00	0.00
TOTAL				1033	4.00	86	86	259.6	-0.57	1.00	0.00
TOTAL				1033	4.00	86	86	256.7	0.57	1.00	0.00
AVERAGE				258.2	1.00	21.5	21.5	258.2	0.00	1.00	0.00
MAXIMUM				266	1.00	23	23	264.3	2.39	1.00	0.00
MINIMUM				251	1.00	21	21	252.0	-2.39	1.00	0.00

ALC : DC

RCC : MATPCC

PCN: 48563A

L4 ARRAY 01-Jan-80
FILE : PCC48563

RUN NO.	FACTOR LEVEL			FLOW TIME THRU PUT RESULT	TOTAL NET INDUCTED THRU PUT FOR RUN	FACTOR	FLOW TIME EFFECT PERCENT		THRU PUT EFFECT PERCENT	
	A	B	C				EFFECT PERCENT	EFFECT PERCENT		
1	1	1	1	256	28	A 1	262.3	0.66	1.00	0.00
2	1	2	2	268	29	A 2	265.8	-0.66	1.00	0.00
3	2	1	2	254	29	B 1	255.4	3.29	1.00	0.00
4	2	2	1	277	29	B 2	272.8	-3.29	1.00	0.00
						C 1	266.9	-1.07	1.00	0.00
						C 2	261.3	1.07	1.00	0.00
				TOTAL	115					
				AVERAGE	28.8		264.1	0.00	1.00	0.00
				MAXIMUM	29		272.8	3.29	1.00	0.00
				MINIMUM	28		255.4	-3.29	1.00	0.00

TABLE: PREDICTION ANALYSIS

NO. OF OBS. : 100 NO. OF PRED. : 100 CORR. : 0.95

ROW NO.	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL
1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1
32	1	1	1	1	1	1	1	1	1
33	1	1	1	1	1	1	1	1	1
34	1	1	1	1	1	1	1	1	1
35	1	1	1	1	1	1	1	1	1
36	1	1	1	1	1	1	1	1	1
37	1	1	1	1	1	1	1	1	1
38	1	1	1	1	1	1	1	1	1
39	1	1	1	1	1	1	1	1	1
40	1	1	1	1	1	1	1	1	1
41	1	1	1	1	1	1	1	1	1
42	1	1	1	1	1	1	1	1	1
43	1	1	1	1	1	1	1	1	1
44	1	1	1	1	1	1	1	1	1
45	1	1	1	1	1	1	1	1	1
46	1	1	1	1	1	1	1	1	1
47	1	1	1	1	1	1	1	1	1
48	1	1	1	1	1	1	1	1	1
49	1	1	1	1	1	1	1	1	1
50	1	1	1	1	1	1	1	1	1
51	1	1	1	1	1	1	1	1	1
52	1	1	1	1	1	1	1	1	1
53	1	1	1	1	1	1	1	1	1
54	1	1	1	1	1	1	1	1	1
55	1	1	1	1	1	1	1	1	1
56	1	1	1	1	1	1	1	1	1
57	1	1	1	1	1	1	1	1	1
58	1	1	1	1	1	1	1	1	1
59	1	1	1	1	1	1	1	1	1
60	1	1	1	1	1	1	1	1	1
61	1	1	1	1	1	1	1	1	1
62	1	1	1	1	1	1	1	1	1
63	1	1	1	1	1	1	1	1	1
64	1	1	1	1	1	1	1	1	1
65	1	1	1	1	1	1	1	1	1
66	1	1	1	1	1	1	1	1	1
67	1	1	1	1	1	1	1	1	1
68	1	1	1	1	1	1	1	1	1
69	1	1	1	1	1	1	1	1	1
70	1	1	1	1	1	1	1	1	1
71	1	1	1	1	1	1	1	1	1
72	1	1	1	1	1	1	1	1	1
73	1	1	1	1	1	1	1	1	1
74	1	1	1	1	1	1	1	1	1
75	1	1	1	1	1	1	1	1	1
76	1	1	1	1	1	1	1	1	1
77	1	1	1	1	1	1	1	1	1
78	1	1	1	1	1	1	1	1	1
79	1	1	1	1	1	1	1	1	1
80	1	1	1	1	1	1	1	1	1
81	1	1	1	1	1	1	1	1	1
82	1	1	1	1	1	1	1	1	1
83	1	1	1	1	1	1	1	1	1
84	1	1	1	1	1	1	1	1	1
85	1	1	1	1	1	1	1	1	1
86	1	1	1	1	1	1	1	1	1
87	1	1	1	1	1	1	1	1	1
88	1	1	1	1	1	1	1	1	1
89	1	1	1	1	1	1	1	1	1
90	1	1	1	1	1	1	1	1	1
91	1	1	1	1	1	1	1	1	1
92	1	1	1	1	1	1	1	1	1
93	1	1	1	1	1	1	1	1	1
94	1	1	1	1	1	1	1	1	1
95	1	1	1	1	1	1	1	1	1
96	1	1	1	1	1	1	1	1	1
97	1	1	1	1	1	1	1	1	1
98	1	1	1	1	1	1	1	1	1
99	1	1	1	1	1	1	1	1	1
100	1	1	1	1	1	1	1	1	1

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FACTORY EFFICIENCY ANALYSIS

PLANT NO. 11 RCC # NATPCS DATE TIME

RUN NO.	LEVEL	LEVEL	TOTAL		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
			PERCENT	PERCENT						
1	1	1	100	100	100	100	100	100	100	100
2	1	2	100	100	100	100	100	100	100	100
3	1	3	100	100	100	100	100	100	100	100
4	2	4	100	100	100	100	100	100	100	100
TOTAL			400	400	100	100	100	100	100	100
AVERAGE			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
STANDARD			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARIANCE			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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TAGUCHI EXPERIMENT ANALYSIS

ALC : DC

RCC : MNTPC

PCN : 95015A

L4 ARRAY

01-Jan-80

FILE : PCC95015

RUN NO.	FACTOR LEVEL			FLOW TIME RESULT	THRU PUT RESULT	TOTAL INDUCTED FOR RUN	NET FOR RUN	FACTOR	FLOW TIME		THRU PUT		
	A	B	C						EFFECT PERCENT	EFFECT PERCENT	EFFECT PERCENT	EFFECT PERCENT	
1	1	1	1	51	1.00	99	99	A 1	52.2	2.43	1.00	0.00	
2	1	2	2	54	1.00	95	95	A 2	54.8	-2.43	1.00	0.00	
3	2	1	2	54	1.00	95	95	B 1	52.4	1.94	1.00	0.00	
4	2	2	1	55	1.00	95	95	B 2	54.5	-1.94	1.00	0.00	
								C 1	53.0	0.82	1.00	0.00	
								C 2	53.9	-0.82	1.00	0.00	
				TOTAL	214	4.00	384						
				AVERAGE	53.5	1.00	96.0		53.5	0.00	1.00	0.00	
				MAXIMUM	55	1.00	99		54.8	2.43	1.00	0.00	
				MINIMUM	51	1.00	95		52.2	-2.43	1.00	0.00	

TAGUCHI EXPERIMENT ANALYSIS

ALC : OC RCC : MATPCZ PCN: 95038A

L4 ARRAY 01-Jan-80 FILE : PCC95038

RUN NO.	LEVEL	FACTOR A	FACTOR B	FACTOR C	FLOW TIME RESULT	THRU PUT RESULT	TOTAL FOR RUN	NET FOR PUT	FACTOR	FLOW TIME EFFECT	THRU PUT EFFECT		
1	1	1	1	1	44	1.00	32	32	A 1	50.6	7.55	1.00	0.00
2	1	2	1	1	57	1.00	29	29	A 2	58.8	-7.55	1.00	0.00
3	2	1	2	1	59	1.00	29	29	B 1	51.5	5.85	1.00	0.00
4	2	2	1	1	58	1.00	29	29	B 2	57.9	-5.85	1.00	0.00
									C 1	51.0	6.75	1.00	0.00
									C 2	58.4	-6.75	1.00	0.00
					TOTAL	219	4.00	119					
					AVERAGE	54.7	1.00	29.8		54.7	0.00	1.00	0.00
					MAXIMUM	59	1.00	32		58.8	7.55	1.00	0.00
					MINIMUM	44	1.00	29		50.6	-7.55	1.00	0.00

TAGUCHI EXPERIMENT ANALYSIS

ALC : QC RCC : MATPC PCN: 95052A

L4 ARRAY 01-Jan-80
FILE : PCC95052

RUN NO.	LEVEL	FACTOR	RESULT	THRU PUT	TOTAL	NET	FLOW TIME	THRU PUT
1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9
1	1	A 1	66	1.00	53	53	71.2	1.00
2	1	A 2	76	1.00	43	43	72.9	1.00
3	2	B 1	70	1.00	43	43	67.8	1.00
4	2	B 2	76	1.00	43	43	76.3	1.00
		C 1					71.2	1.00
		C 2					72.9	1.00
		TOTAL	288	4.00	182	182		
		AVERAGE	72.1	1.00	45.5	45.5	72.1	0.00
		MAXIMUM	76	1.00	53	53	76.3	5.93
		MINIMUM	66	1.00	43	43	67.8	-5.93

TAGUCHI EXPERIMENT ANALYSIS

ALC : OC

RCC : MATPCC

PCN :

95058A

L4 ARRAY

01-Jan-80

FILE : PCC95058

RUN NO.	FACTOR LEVEL			TOTAL	NET	THRU PUT	RESULT	FLOW TIME	THRU PUT	EFFECT PERCENT	FACTOR	EFFECT PERCENT	THRU PUT	EFFECT PERCENT
	A	B	C											
1	1	1	1	64	1.00	33	1.00	33	60.3	-5.53	A 1	60.3	1.00	0.00
2	1	2	2	56	1.00	41	1.00	41	54.0	5.53	A 2	54.0	1.00	0.00
3	2	1	2	53	1.00	41	1.00	41	58.4	-2.18	B 1	58.4	1.00	0.00
4	2	2	1	55	1.00	41	1.00	41	55.9	2.18	B 2	55.9	1.00	0.00
									59.9	-4.74	C 1	59.9	1.00	0.00
									54.4	4.74	C 2	54.4	1.00	0.00
				TOTAL	229	4.00	156							
				AVERAGE	57.2	1.00	39.0	39.0	57.2	0.00		57.2	1.00	0.00
				MAXIMUM	64	1.00	41	41	60.3	5.53		60.3	1.00	0.00
				MINIMUM	53	1.00	33	33	54.0	-5.53		54.0	1.00	0.00

L4 ARRAY 01-Jan-80
 FILE: PCC95086

TAGUCHI EXPERIMENT ANALYSIS
 ALC: DC RCC: MATPCC PCN: 95086A

RUN NO.	LEVEL	FACTOR	RESULT	THRU	PUT	INDUCTED	THRU	PUT	TOTAL	NET	FLOW TIME	EFFECT	PERCENT	THRU	PUT	EFFECT	PERCENT
1	1	A 1	71	1.00	58	58	58	58	58	58	75.7	0.49	1.00	1.00	0.00	1.00	0.00
2	1	A 2	80	1.00	52	52	52	52	52	52	75.5	-0.49	1.00	1.00	0.00	1.00	0.00
3	2	B 1	72	1.00	52	52	52	52	52	52	71.4	6.20	1.00	1.00	0.00	1.00	0.00
4	2	B 2	81	1.00	52	52	52	52	52	52	80.8	-6.20	1.00	1.00	0.00	1.00	0.00
		C 1									76.0	0.08	1.00	1.00	0.00	1.00	0.00
		C 2									76.1	-0.08	1.00	1.00	0.00	1.00	0.00
		TOTAL	304	4.00	214	214	214	214	214	214							
		AVERAGE	76.1	1.00	53.5	53.5	53.5	53.5	53.5	53.5	76.1	0.00	1.00	1.00	0.00	1.00	0.00
		MAXIMUM	81	1.00	58	58	58	58	58	58	80.8	6.20	1.00	1.00	0.00	1.00	0.00
		MINIMUM	71	1.00	52	52	52	52	52	52	71.4	-6.20	1.00	1.00	0.00	1.00	0.00

TABUCHI EXPERIMENT ANALYSIS

ALC : DC RCC : MATPCC PCN: 95108A

L4 ARRAY 01-Jan-80
FILE : PCC95108

RUN NO.	LEVEL	A	B	C	FLOW TIME RESULT	THRU PUT RESULT	TOTAL INDUCTED FOR RUN	NET FOR RUN	THRU PUT EFFECT PERCENT	FLOW TIME EFFECT PERCENT	THRU PUT EFFECT PERCENT
1	1	1	1	1	49	1.00	23	23	1.00	46.4	1.00
2	1	2	2	2	44	1.00	21	21	1.00	-2.98	1.00
3	2	1	2	2	44	1.00	21	21	1.00	2.98	1.00
4	2	2	1	1	44	1.00	21	21	1.00	-2.81	1.00
TOTAL					180	4.00	86	86	1.00	43.8	1.00
AVERAGE					45.0	1.00	21.5	21.5	1.00	45.0	1.00
MAXIMUM					49	1.00	23	23	1.00	46.4	1.00
MINIMUM					44	1.00	21	21	1.00	43.7	1.00

TRUCHI EXPERIMENT ANALYSIS
 ALC : OC

RCC : MATPCC

PCN: 95111A

LA ARRAY 01-Jan-80
 FILE : PCCR5111

RUN NO.	FACTOR LEVEL			RESULT	FLOW TIME	THRU PUT	RESULT	THRU PUT	INDUCTED	THRU PUT	NET	FACTOR	FLOW TIME		THRU PUT	
	A	B	C										EFFECT	PERCENT	EFFECT	PERCENT
1	1	1	1	105	1.00	24	1.00	24	24	24	87	A 1	108.9	-1.03	1.00	0.00
2	1	2	2	112	1.00	21	1.00	21	21	21	87	A 2	106.7	1.03	1.00	0.00
3	2	1	2	107	1.00	21	1.00	21	21	21	87	B 1	106.1	1.54	1.00	0.00
4	2	2	1	106	1.00	21	1.00	21	21	21	87	B 2	109.4	-1.54	1.00	0.00
												C 1	105.9	1.78	1.00	0.00
												C 2	109.7	-1.78	1.00	0.00
												TOTAL	431	4.00	87	87
												AVERAGE	107.8	1.00	21.8	21.8
												MAXIMUM	112	1.00	24	24
												MINIMUM	105	1.00	21	21
												AVERAGE	107.8	0.00	1.00	0.00
												MAXIMUM	109.7	1.78	1.00	0.00
												MINIMUM	105.9	-1.78	1.00	0.00

L4 ARRAY 01-Jan-80
 FILE : PCC95131

TAGUCHI EXPERIMENT ANALYSIS
 ALC : DC RCC 11 MATPCC PCN: 95131A

RUN NO.	FACTOR LEVEL		C	FLOW TIME	THRU PUT	RESULT	THRU PUT	INDUCTED	THRU PUT	NET	FACTOR	FLOW TIME		THRU PUT	
	1	2										EFFECT	PERCENT	EFFECT	PERCENT
1	1	1	1	61	1.00	121	1.00	121	121	121	A 1	61.6	-2.05	1.00	0.00
2	1	2	2	62	1.00	143	1.00	143	143	143	A 2	59.1	2.05	1.00	0.00
3	2	1	2	60	1.00	143	1.00	143	143	143	B 1	60.5	-0.19	1.00	0.00
4	2	2	1	59	1.00	143	1.00	143	143	143	B 2	60.3	0.19	1.00	0.00
											C 1	60.1	0.43	1.00	0.00
											C 2	60.6	-0.43	1.00	0.00
											TOTAL	242	4.00	350	550
											AVERAGE	60.4	1.00	137.5	137.5
											MAXIMUM	62	1.00	143	143
											MINIMUM	59	1.00	121	121
											TOTAL	60.4	0.00	1.00	0.00
											AVERAGE	61.6	2.05	1.00	0.00
											MINIMUM	59.1	-2.05	1.00	0.00

01-Jan-80
 FILE : PCC95133

L4 -R
 95133A
 PCN:

TAGUCHI EXPERIMENT ANALYSIS
 ALC : DC
 RCC : NATPEC

RUN NO.	FACTOR LEVEL			FLOW TIME RESULT	THRU PUT RESULT	NET INDUCTED FOR RUN	THRU PUT FOR RUN	FACTOR	FLOW TIME		THRU PUT	
	A	B	C						EFFECT PERCENT	EFFECT PERCENT		
1	1	1	1	52	1.00	15	15	A 1	52.4	3.10	1.00	0.00
2	1	2	2	53	1.00	18	18	A 2	55.8	-3.10	1.00	0.00
3	2	1	2	54	1.00	18	18	B 1	52.9	2.22	1.00	0.00
4	2	2	1	57	1.00	18	18	B 2	55.3	-2.22	1.00	0.00
								C 1	54.5	-0.71	1.00	0.00
								C 2	53.7	0.71	1.00	0.00
				TOTAL	216	69	69					
				AVERAGE	54.1	17.3	17.3		54.1	0.00	1.00	0.00
				MAXIMUM	57	18	18		55.8	3.10	1.00	0.00
				MINIMUM	52	15	15		52.4	-3.10	1.00	0.00

TAGUCHI EXPERIMENT ANALYSIS

ALC : OS RCC : MATPEC PCN: 95188A

L4 ARRAY 01-Jan-80
FILE : PCC95188

RUN NO.	LEVEL	FACTOR	RESULT	THRU PUT	TOTAL NET	INDUCTED THRU PUT	FOR RUN	FOR RUN	PUT	FLOW TIME	EFFECT PERCENT	THRU PUT	EFFECT PERCENT
1	1	A 1	63	1.00	18	18	18	18	18	61.0	1.44	1.00	0.00
2	1	A 2	59	1.00	17	17	17	17	17	62.8	-1.44	1.00	0.00
3	2	B 1	62	1.00	17	17	17	17	17	62.7	-1.24	1.00	0.00
4	2	B 2	63	1.00	17	17	17	17	17	61.1	1.24	1.00	0.00
		C 1								63.3	-2.27	1.00	0.00
		C 2								60.5	2.27	1.00	0.00
TOTAL			248	4.00	69	69	69	69	69				
AVERAGE			61.9	1.00	17.3	17.3	17.3	17.3	17.3	61.9	0.00	1.00	0.00
MAXIMUM			63	1.00	18	18	18	18	18	63.3	2.27	1.00	0.00
MINIMUM			59	1.00	17	17	17	17	17	60.5	-2.27	1.00	0.00

TRUCKS EQUIPMENT ANALYSIS

NO. 100

DATE: 10/10/68

BY: J. J. ...

NO. NO. LEVEL	LEVEL	FACTOR	TOTAL		PERCENT		PERCENT	PERCENT	PERCENT
			PERCENT	PERCENT	PERCENT	PERCENT			
1	1	1	100	100	100	100	100	100	100
1	1	2	50	50	50	50	50	50	50
1	1	3	50	50	50	50	50	50	50
1	1	4	50	50	50	50	50	50	50
1	1	5	50	50	50	50	50	50	50
TOTAL			200	200	200	200	200	200	200
AVERAGE			57.9	57.9	57.9	57.9	57.9	57.9	57.9
MAXIMUM			60	60	60	60	60	60	60
MINIMUM			55	55	55	55	55	55	55

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11.0 QUICK FIXES

11.0
11.1
11.2



TECHNICAL SERVICES PROGRAM
X-RAY INSERTION ENGINEERING

TI PROGRAM
COST BENEFIT ANALYSIS REPORT

ALC O.C. DATE 5/25/89
RCC matrix ITEM NO. _____
NOUN _____

CONTROL NO. _____

TYPE PROPOSAL

- QUICK FIX
- FOCUS STUDY
- OTHER _____

CURRENT METHOD

Safety glass required signs eye not as visible as they should be

PROPOSED METHOD

Raise all safety signs to eye level or above

BENEFIT OF CHANGE

Prevent accidents

PRODUCTIVITY IMPROVEMENT SUMMARY

TECH SERVICES PROGRAM
OIL & GAS ENGINEERING

TI PROGRAM
COST BENEFIT ANALYSIS REPORT

CONTROL NO. #2

TYPE PROPOSAL

- QUICK FIX
- FOCUS STUDY
- OTHER

ALC OC DATE 5-3-89

RCC MATPCC ITEM NO. 49583A

NOUN Fuel flow transmitter

CURRENT METHOD

Block ball needed means of securing compensator block. Operator has presented problem but no one was interested until one moved enough so the valve was blocked. The fuel could not be turned off. Turkey Air Craft was on the ground. New units were pulled from supply. 9 of 12 were loose. Problem given back to vendor. Name Mac McCreight operator

Vendor - Gal Airborn

PROPOSED METHOD

provide 1) "good" replacement parts or 2) a release to secure compensator block as a repair.

BENEFIT OF CHANGE

PRODUCTIVITY IMPROVEMENT SUMMARY

TECHNICAL INSERTION ENGINEERING
SERVICES PROGRAM

CONTROL NO. CC 2

TI PROGRAM
COST BENEFIT ANALYSIS REPORT

ALC OC DATE 4-28-89

RCC MATPEC-ITEM NO. 211102

NOUN fuel flow transmitter

QPO

TYPE PROPOSAL

- QUICK FIX
- FOCUS STUDY
- OTHER

CURRENT METHOD

Vendor part is defective. Repair plate easy - 405-025-001
is received with legs. even (20 to 30%)
(4/28/89)

PROPOSED METHOD

develop incoming inspection or vendor site inspection to keep
bad parts from coming into production area. Present - purge
stock of bad parts.

BENEFIT OF CHANGE

Time less is .2 hr/unit plus time to return parts to
vendor or test of parts tracked because its easier in the shop
than a reg used paper work.

PRODUCTIVITY IMPROVEMENT SUMMARY

TECHNOLOGY INSERTION ENGINEERING
SERVICES PROGRAM

CONTROL NO. _____

TYPE PROPOSAL

- QUICK FIX
 FOCUS STUDY
 OTHER _____

TI PROGRAM
COST BENEFIT ANALYSIS REPORT

ALC OK DATE 30 May 1989
RCC MATRAC ITEM NO. 42087A/45362A/48371A/61207A/61264A
NOUN Fuel Flow Transmitters

CURRENT METHOD

When the impeller unit (6620-00-463-7489) in these assemblies becomes worn it is discarded and a new impeller purchased. These units are discarded at an average of 200 units per year, and a cost of \$481.80 each. The current cost to the USAF is \$96360.

PROPOSED METHOD

USAF suggestion # 861138 describes a procedure whereby the impeller can be repaired for a cost (materials and labor) of approximately \$15.00 per impeller. Implementation of this suggestion would require no capital investment (all required machinery is currently in use at OC-AIC Bldg 3001), no additional training, and is recommended for immediate action.

BENEFIT OF CHANGE

This change will save the USAF approximately \$93,360 per year. During a war time surge effort, when new impellers may be difficult to obtain from overworked vendors, this in-house repair capability would substantially improve readiness.

PRODUCTIVITY IMPROVEMENT SUMMARY

Implementing this suggestion (first submitted on an AF Form 1000 in 1986, by OC-AIC employees) will save the USAF almost \$100,000 per year. The delays to date (awaiting a Tech order rewrite by a 3rd party vendor) have already cost the USAF almost \$300,000. The suggestor (W.K. McCreight) was recently directed to discard the over 400 impellers he had stockpiled.

TECH' DGY INSERTION ENGINEERING
SERVIC'S PROGRAM

TI PROGRAM
COST BENEFIT ANALYSIS REPORT

ALC QC DATE 5-15-89

RCC MATL PCC ITEM NO. 95131A, 95044A, 49851A

NOUN Actuator

CONTROL NO. 1

6

TYPE PROPOSAL

QUICK FIX

FOCUS STUDY

OTHER

CURRENT METHOD

Motors removed for actuator are considered expensive. Repair is not allowed or parts are not available. New motors can not be ordered until the unit has been torn down and motor is ready to turn in. The disassembled unit is there sit a while until motor is received. Now time is lost - 1 Day to 3 weeks

PROPOSED METHOD

Allow unit to keep one or two motor in stock. As used the motor would be replaced by turning in old motor.

BENEFIT OF CHANGE

Decrease flow time required by 8 to 9 1/2 hrs.

PRODUCTIVITY IMPROVEMENT SUMMARY

TECHNICAL SERVICE PROGRAM

CONTROL NO. CL 54

TI PROGRAM
COST BENEFIT ANALYSIS REPORT

ALC OC DATE 5-18-89

RCC MATPEC ITEM NO.

NOUN Actuators (10) PCN's

QFO

TYPE PROPOSAL

QUICK FIX

FOCUS STUDY

OTHER

CURRENT METHOD

Spring required in slip clutch type actuators are coming in from the vendor $\frac{1}{2}$ to $\frac{3}{4}$ too long as shown by "x". Springs are supposed to have been U.R.'s but there were about 12 in parts lot. Vendor agreed it was too long. It will be a long time before new ones are due. Springs PN 532440-1. Using long spring caused damage to gear & gear shaft \$180.00 part

PROPOSED METHOD

Supply correct springs. Attempts to correct springs in house failed. Need either source inspection or receiving inspection.



BENEFIT OF CHANGE

(This section is currently blank)

PRODUCTIVITY IMPROVEMENT SUMMARY

(This section is currently blank)

TECHNICAL SERVICE PROGRAM
MATERIALS INSERTION ENGINEERING

CONTROL NO.

TYPE PROPOSAL

ALC OC DATE 24 May 89
RCC DAILEY ITEM NO. N/A
NOUN N/A

TI PROGRAM
COST BENEFIT ANALYSIS REPORT QFO

- QUICK FIX
- FOCUS STUDY
- OTHER

CURRENT METHOD

Individual operators take work-in-progress to backshops (Paint shop and Dye Penetrant) without scheduling or logging the part out of the RCC. RCC management is unable to identify backshop flow problems or work to solve them in a timely manner. The loss of an operator (Permanent or Temporary) means the loss of work-in-progress data.

PROPOSED METHOD

When a part is taken to another RCC, it should be logged out in a log kept in the tool printing office. The entry should include PCN, Serial #, Operator name, destination, date and time out, and projected time of return. ~~When a part is returned, the time and date should be logged on the same entry.~~

BENEFIT OF CHANGE

MATIPCC management would have a tool to identify, track and resolve work flow problems with other RCCs in a timely manner. Work-in-process volume and accountability would be greatly enhanced.

PRODUCTIVITY IMPROVEMENT SUMMARY

The result of this change would be better control of the RCC's processes without any direct cost savings identifiable. The cost to implement this change would be negligible.

TECHNOLOGY INSERTION ENGINEERING SERVICES PROGRAM

CONTROL NO. CC # 5

TYPE PROPOSAL

- QUICK FIX
- FOCUS STUDY
- OTHER

TI PROGRAM COST BENEFIT ANALYSIS REPORT

ALC OC DATE 5-15-89
 RCC MATRCC ITEM NO. 30033A, 34107A
 NOUN working program

CURRENT METHOD

see attached P I 9 CC # 5, APPENDIX 13.3

PROPOSED METHOD

BENEFIT OF CHANGE

Errors reduced by .4 to .6 hrs per unit depending on what is done to correct unit.
 • $4hr \times 34,261 \times (30(30033A) + 30(34107A)) \text{ unit quantity} \times 4 \text{ hours} = 2740 \text{ hr.}$
 $1.6hr \times 34,261 \times 50 = 2411 \text{ year}$

PRODUCTIVITY IMPROVEMENT SUMMARY

120 FOCUS STUDIES

120
FOCUS
STUDIES

0

120 FOCUS STUDIES

TECHNOLOGY INSERTION ENGINEERING SERVICES PROGRAM

TI PROGRAM COST BENEFIT ANALYSIS REPORT

CONTROL NO.

TYPE PROPOSAL

- QUICK FIX
- FOCUS STUDY
- OTHER

ALC ALC DATE 25 May 87
RCC MATAC ITEM NO. _____
NOUN _____

CURRENT METHOD

Workers in MATAC often repair/rework new items rather than reject them. This hides the problem of poor vendor quality and generates an expensive "hidden factory" within the RCC. This is a commonly reported problem in numerous RCCs. For some vendor parts we have been given estimates of as much as 30% received in an unserviceable condition.

PROPOSED METHOD

We propose a focus study to identify (~~RCC~~-wide) those parts which are causing 80% of the problem, determine the extent and cost of the situation, and develop a program of recommended changes in vendor management and receiving inspections and rejection procedures to correct the problem. The result will be a system of Total Quality Management where only 100% quality is accepted at each stage of the production process and quality problems are immediately highlighted for management action.

BENEFIT OF CHANGE

Instituting a ~~program~~ 100% quality management system will substantially reduce the cost and flow time for those processes with quality problems. This system will also enhance the total quality of end items delivered to the active military units in the field and give ~~RCC~~ managers and workers a method of quickly evaluating the effects of proposed process changes.

PRODUCTIVITY IMPROVEMENT SUMMARY

Given the breadth of the problem, improvements cannot be quantified within the scope of this recommendation. A major portion of the Focus Study effort will be to determine the costs of the current situation and project savings generated by implementation of the solutions developed.

TECHNICAL INSERTION ENGINEERING
SERVICES PROGRAM

CONTROL NO.

TYPE PROPOSAL

ALC OC DATE 25 May 89
RCC MAIPCC ITEM NO. _____
NOUN _____

TI PROGRAM
COST BENEFIT ANALYSIS REPORT

QUICK FIX
 FOCUS STUDY
 OTHER

CURRENT METHOD

~~At~~ ~~the~~ ~~MAIPCC~~ ~~mechanics~~ in MAIPCC routinely carry parts to and from other RCCs and supply workers (Not material handlers) and supervisors from other RCCs walk to MAIPCC to pick up ~~parts~~ tags which are printed there. Although an extensive material handling system is in place at OC-ACC, it is either inadequate or is not being used for another reason. This informal "do-it-yourself" material handling procedure adds greatly to the cost of material handling with no obvious benefits.

PROPOSED METHOD

where possible, the existing system of overhead conveyors and other material-handling tools should be used. Material handling should be performed by Mat'l handlers rather than more highly-skilled (and paid) production workers. The reasons why this is not being done must be studied and a plan to insure the maximum use of material handling assets developed. Any problems with the existing system will be identified by the focus study and recommended corrective plan developed.

BENEFIT OF CHANGE

The successful "do-it-yourself" hand carry method adds a hidden cost to ~~MAIPCC~~ material handling and hides any quality problems in the formal mat'l handling system. The benefits of this focus study would be the identification and elimination of excessive labor costs in the mat'l handling process (w/5 mat'l handler's replace w/10s), increased availability of skilled workers for other tasks, and 100% quality acceptance program for mat'l handling.

PRODUCTIVITY IMPROVEMENT SUMMARY

The total cost is impossible to quantify without the detailed study called for in this recommended focus study.

TECHNOLOGY INSERTION ENGINEERING
SERVICES PROGRAM

CONTROL NO.

TYPE PROPOSAL

- QUICK FIX
- FOCUS STUDY
- OTHER

TI PROGRAM
COST BENEFIT ANALYSIS REPORT

ALC QC DATE 8/30/89
RCC ALL ITEM NO. _____
NOUN Supervisor

CURRENT METHOD

one supervisor for 25 mechanics

PROPOSED METHOD

* Change ratio to 1 supervisor to 30 mechanics (average).
With the increased years of experience and the age of the equipment
to be repaired, training and experience is not a large burden on
supervision. This same thinking can be use of the unit plus 3 Section Chief
* This should not be implemented on start up operations without in-

BENEFIT OF CHANGE

Reduce cost of supervision by 17%
7 CEASED Support people.

PRODUCTIVITY IMPROVEMENT SUMMARY

¶2.3

APPENDIX A

E046B STANDARDS, 1988, 1989

F2.3

LABOR STANDARD MASTER FILE															A-E0468-MM3-MX-290			
MTPC	RCC FAC	CYL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	UNIT TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	PAGE	FLOW HRS				
MTPCC 1	00210 B	48371	48371	CAPSTAN	99289-04	210N	BY	1.00	EA	N	4.12	82287	K	.0				
MTPCC 1	00210 B	48373	48373	CAPSTAN	99289-04	210N	BY	1.00	EA	N	4.12	82287	K	.0				
MTPCC 1	00210 B	48378	48378	CAPSTAN	99289-04	210N	BY	1.00	EA	N	4.12	82287	K	.0				
MTPCC 1	00210 B	80235	80235	AILERON CAPSTAN 99289-04			BY	1.00	EA	N	4.12	88251	K	.0				
MTPCC 1	00210 B	80237	80237	RUDDER CAPSTAN 99289-04			BY	1.00	EA	N	4.12	88251	K	.0				
MTPCC 1	00210 B	80238	80238	ELEVATOR CAPSTAN 99289-04			BY	1.00	EA	N	4.12	88251	K	.0				
MTPCC 1	00210 B	80186	80186	CK-TST-REP WA PU 6156	202N	BY	1.00	EA	N	4.90	82044	K	.0					
MTPCC 4	00210 B	80175	80175	BATT MA-4	MS24497-1	202N	BY	1.00	EA	N	5.40	82051	K	.0				
MTPCC 4	00210 B	80176	80176	BATT-A/C	MS24497-5	202N	BY	1.00	EA	N	4.00	82051	K	.0				
MTPCC 4	00210 B	80177	80177	BATT-INS	7888701-11	202N	BY	1.00	EA	N	4.00	82051	K	.0				
MTPCC 1	00210 B	80180	80180	BATTERY		112N	BY	1.00	EA	N	.50	81353	K	.0				
MTPCC 1	00210 B	80185	80185	BATTERY		112N	BY	1.00	EA	N	.50	81353	K	.0				
MTPCC 1	00215 B	80226	80226	AILERON CAPSTAN 99289-04			BY	1.00	EA	N	4.12	88251	K	.0				
MTPCC 1	00215 B	80227	80227	RUDDER CAPSTAN 99289-04			BY	1.00	EA	N	4.12	88251	K	.0				
MTPCC 1	00215 B	80228	80228	ELEVATOR CAPSTAN 99289-04			BY	1.00	EA	N	4.12	88251	K	.0				
MTPCC 1	00215 B	80186	80186	CK-TST-REP WA PU 6156	202N	BY	1.00	EA	N	4.90	82044	K	.0					
MTPCC 4	00215 B	80175	80175	BATT MA-4	MS24497-1	202N	BY	1.00	EA	N	5.40	82051	K	.0				
MTPCC 4	00215 B	80176	80176	BATT-A/C	MS24497-5	202N	BY	1.00	EA	N	4.00	82051	K	.0				
MTPCC 4	00215 B	80177	80177	BATT-INS	7888701-11	202N	BY	1.00	EA	N	4.00	82051	K	.0				
MTPCC 1	00220 B	80186	80186	CK-TST-REP WA PU		202N	BY	1.00	EA	N	4.90	82044	K	.0				
MTPCC 4	00220 B	80175	80175	BATT MA4		202N	BY	1.00	EA	N	5.40	82051	K	.0				
MTPCC 4	00220 B	80176	80176	BATT A/C	MS24497-5	202N	BY	1.00	EA	N	4.00	82051	K	.0				
MTPCC 1	00230 B	80168	80168	CK-TEST WA PU	6156	001N	BY	1.00	EA	N	4.90	80167	K	.0				
MTPCC 4	00230 B	80175	80175	BATT MA4	MS24497+1	001N	BY	1.00	EA	N	5.40	80167	K	.0				
MTPCC 4	00230 B	80176	80176	BATT A/C	MS24497+5	001N	BY	1.00	EA	N	4.00	80167	K	.0				
MTPCC 4	00230 B	80177	80177	BATT INS	788870+11	001N	BY	1.00	EA	N	4.00	80167	K	.0				

LABOR STANDARD MASTER FILE										04/30/89	A-E0468-MM3-MX-290			PAGE	2
MTPC	RCC FAC	CTL NO	J NO	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IMD	A/R CD	FLOW HRS	
MTPOC 4	00260 B	00176		MS24497-1	00IN BY	BY	1.00	EA	N	5.40	80167		K	.0	
MTPOC 4	00260 B	00176		MS24497-5	00IN BY	BY	1.00	EA	N	4.00	80167		K	.0	
MTPOC 4	00260 B	00177		7888701-11	06IN BY	BY	1.00	EA	N	4.00	80167		K	.0	
MTPOC 1	00280 B	00026		AILERON CAPSTAN	99289-04	BY	1.00	EA	N	4.12	88251		K	.0	
MTPOC 1	00280 B	00028		ELEVATOR CAPSTAN	99289-04	BY	1.00	EA	N	4.12	88251		K	.0	
MTPOC 4	00280 B	00176		MS24497-1	202N BY	BY	1.00	EA	N	5.40	82051		K	.0	
MTPOC 4	00280 B	00176		MS24497-5	202N BY	BY	1.00	EA	N	4.00	82051		K	.0	
MTPOC 4	00280 B	00176		MS24497-1	202N BY	BY	1.00	E/	N	4.00	82051		K	.0	
MTPOC 1	00280 B	00026		AILERON CAPSTAN	99289-04	BY	1.00	EA	N	4.12	88251		K	.0	
MTPOC 1	00280 B	00028		ELEVATOR CAPSTAN	99289-04	BY	1.00	EA	N	4.12	88251		K	.0	
MTPOC 4	00280 B	00176		MS24497-1	202N BY	BY	1.00	EA	N	5.40	82051		K	.0	
MTPOC 4	00280 B	00176		MS24497-5	202N BY	BY	1.00	EA	N	4.00	82051		K	.0	
MTPOC 4	00280 B	00009		7888701-11	202N BY	BY	1.00	EA	N	4.00	82051		K	.0	
MTPOC 1	00416 B	00119		B52 CONV W/S WIPER	D18716-1	BY	1.00	EA	N	.01	81137		K	.0	
MTPOC 1	00416 B	00120		B52 CONV W/S WIPER	D18716-1	BY	1.00	EA	N	.01	81137		K	.0	
MTPOC 1	00886 A	00M10		PAINT		AY	1.00	EA	N	1.00	87335		K	.0	
MTPOC 1	23005 G	00M05		TDR ENG ACCYS	202N DY	DY	1.00	EA	N	.86	82044		K	.0	
MTPOC 1	23009 G	00M05		TDR ENG ACCYS	311N DY	DY	1.00	EA	N	.86	82044		K	.0	
MTPOC 1	23030 Q	00M10		TDR ENG ACCYS	102N DY	DY	1.00	EA	N	.86	81015		K	.0	
MTPOC 1	23100 Q	00M05		TDR ENG ACCYS	102N DY	DY	1.00	EA	N	.86	81015		K	.0	
MTPOC 1	23103 A	00M53		OH/REP IGNITION TRANSFORMER		DY	1.00	EA	N	.40	84361		K	.0	
MTPOC 1	23103 A	00M54		CABLE	42189	DY	1.00	EA	N	5.10	84361		K	.0	
MTPOC 1	23103 A	00M55		CABLE	42190	DY	1.00	EA	N	5.00	86303		K	.0	
MTPOC 1	23103 A	00M56		CABLE	42191	DY	1.00	EA	N	4.30	84361		K	.0	
MTPOC 1	23103 A	00M57		CABLE	42347	DY	1.00	EA	N	4.20	84361		K	.0	
MTPOC 1	23103 B	00M59		MISC CABLE		DY	1.00	EA	N	2.50	85297		K	.0	

LABOR STANDARD MASTER FILE										04/30/89	A-E046B-MM3-MX-290	PAGE 3
RCC FAC	CTL J NO D	OPER NO	DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
MTPOC 1	23107 A	00M53	OH/REP IGNITION TRANSFORMER	DY	1.00	EA	N	.40	84361		K	.0
MTPOC 1	23107 A	00M54	CABLE	DY	1.00	EA	N	5.10	84361		K	.0
MTPOC 1	23107 A	00M55	CABLE	DY	1.00	EA	N	5.00	86303		K	.0
MTPOC 1	23107 A	00M56	CABLE	DY	1.00	EA	N	4.30	84361		K	.0
MTPOC 1	23107 A	00M57	CABLE	DY	1.00	EA	N	4.20	84361		K	.0
MTPOC 1	23107 B	00M58	MISC CABLE	DY	1.00	EA	N	2.50	85297		K	.0
MTPOC 1	23109 A	00M59	OH/REP IGNITION TRANSFORMER	DY	1.00	EA	N	.40	84361		K	.0
MTPOC 1	23109 A	00M64	CABLE	DY	1.00	EA	N	5.10	84361		K	.0
MTPOC 1	23109 A	00M65	OH/REP CABLE	DY	1.00	EA	N	5.00	86303		K	.0
MTPOC 1	23109 A	00M66	CABLE	DY	1.00	EA	N	4.30	84361		K	.0
MTPOC 1	23109 A	00M67	CABLE	DY	1.00	EA	N	4.20	84361		K	.0
MTPOC 1	23109 B	00M68	MISC CABLE	DY	1.00	EA	N	2.50	85297		K	.0
MTPOC 1	23111 A	00M62	LEAD-LH	DY	1.00	EA	N	3.57	85319		K	.0
MTPOC 1	23111 A	00M63	LEAD-RH	DY	1.00	EA	N	3.87	85319		K	.0
MTPOC 1	23111 A	00M65	LEAD 2EA.	DY	1.00	EA	N	5.36	85319		K	.0
MTPOC 1	23111 A	00M60	CABLE	DY	1.00	EA	N	1.00	85337		K	.0
MTPOC 1	23111 A	00M70	CABLE	DY	1.00	EA	N	.74	85337		K	.0
MTPOC 1	23111 B	00M60	CABLE	DY	1.00	EA	N	.50	84105		K	.0
MTPOC 1	23111 B	00M69	MISC CABLE	DY	1.00	EA	N	2.50	85297		A	.0
MTPOC 1	23119 A	00M53	OH/REP IGNITION TRANSFORMER	DY	1.00	EA	N	.40	84361		F	.0
MTPOC 1	23119 A	00M54	CABLE	DY	1.00	EA	N	5.10	84361		F	.0
MTPOC 1	23119 A	00M55	OH/REP CABLE	DY	1.00	EA	N	5.00	86303		F	.0
MTPOC 1	23119 A	00M56	CABLE	DY	1.00	EA	N	4.30	84361		F	.0
MTPOC 1	23119 A	00M57	CABLE	DY	1.00	EA	N	4.20	84361		F	.0
MTPOC 1	23301 A	00M60	CABLE EXCTR R/S/1 49110-102N	DY	1.00	EA	N	.68	82044		K	.0
MTPOC 1	23301 A	00M51	CABLE EXCTR L/S/1 49111 102N	DY	1.00	EA	N	.68	82044		K	.0

LABOR STANDARD MASTER FILE

MTPC	RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCOR FACTOR	UNIT COUNT	UNIT TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
MTPCC	1	23301	A	00M82	CABLE TC REAR	484340	102N	DY	1.00	EA	N	.93	82044
MTPCC	1	23301	A	00M83	CABLE TC FRONT	481619	102N	DY	1.00	EA	N	.93	82044
MTPCC	1	23301	A	00M89	MIS CABLE REP		102N	DY	1.00	EA	N	.25	81015
MTPCC	1	23301	B	00M90	CABLE EXCTR R/S/I	481110	202N	DY	1.00	EA	N	.34	82044
MTPCC	1	23301	B	00M91	CABLE EXCTR L/S/I	491111	202N	DY	1.00	EA	N	.34	82044
MTPCC	1	23301	B	00M92	CABLE T/C REAR	484340	202N	DY	1.00	EA	N	.48	82044
MTPCC	1	23301	B	00M93	CABLE TC FRONT	481619	202N	DY	1.00	EA	N	.48	82044
MTPCC	1	23301	B	00M99	MISC CABLE REPAIR		202N	DY	1.00	EA	N	.25	82044
MTPCC	1	23302	A	00M80	O/H CABLE	40780		DY	1.00	EA	N	1.36	86336
MTPCC	1	23302	A	00M82	O/H CABLE	434508		DY	1.00	EA	N	.93	86322
MTPCC	1	23302	A	00M83	O/H CABLE	41039		DY	1.00	EA	N	4.21	86336
MTPCC	1	23302	A	00M84	O/H CABLE	41038		DY	1.00	EA	N	4.21	86336
MTPCC	1	23305	A	00M80	CABLE	40780	102N	DY	1.00	EA	N	1.36	81015
MTPCC	1	23305	A	00M81	SWITCH	481695		DY	1.00	EA	N	2.05	87113
MTPCC	1	23305	A	00M82	CABLE	434508	102N	DY	1.00	EA	N	.93	81015
MTPCC	1	23305	A	00M83	HARNESS	41039	102N	DY	1.00	EA	N	4.21	81015
MTPCC	1	23305	A	00M84	HARNESS	41038	102N	DY	1.00	EA	N	4.21	81015
MTPCC	1	23305	A	00M89	MISC CABLE REPAIR		102N	DY	1.00	EA	N	.25	81015
MTPCC	1	23305	A	00M93	ENGINE ACCESS		102N	DY	1.00	EA	N	11.10	82044
MTPCC	1	23305	A	CBM81	CABLE TR REAR		102N	DY	1.00	EA	N	.68	81015
MTPCC	1	23305	B	00M81	SWITCH	377102	202N	DY	1.00	EA	N	2.05	82051
MTPCC	1	23305	B	00M82	CABLE	434508	102N	DY	1.00	EA	N	.27	81015
MTPCC	1	23305	B	00M83	CABLE	41039	102N	DY	1.00	EA	N	.90	81015
MTPCC	1	23305	B	00M84	CABLE	41038	102N	DY	1.00	EA	N	1.59	81015
MTPCC	1	23305	B	00M89	MISC CABLE REPAIR		102N	DY	1.00	EA	N	.33	81015
MTPCC	1	23305	B	CBM81	CABLE TC REAR	421486	102N	DY	1.00	EA	N	.77	81015

MTPC	RCC FAC	CTL J NO. D	OPER NO	LABOR STANDARD MASTER FILE	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE STD HOURS	LAST REVIEW	OPER IND	A/R CD	PAGE	FLOW HRS
MTPCC 1	23307 B	00M50	00M50	CABLE 40790	102N DY	1.00	EA N	.22	81015		K	5	.0
MTPCC 1	23307 A	00M50	00M50	CABLE 41804	106N DY	1.00	EA N	4.01	81137		K		.0
MTPCC 1	23307 A	00M51	00M51	MI-TENS LEAD	102N DY	1.00	EA N	4.29	81015		K		.0
MTPCC 1	23307 A	00M52	00M52	484340	106N DY	1.00	EA N	1.01	82044		K		.0
MTPCC 1	23307 A	00M53	00M53	CABLE 481819	106N DY	1.00	EA N	1.01	82044		K		.0
MTPCC 1	23307 A	00M59	00M59	MIS CABLE REP	106N DY	1.00	EA N	.33	81137		K		.0
MTPCC 1	23309 A	00M50	00M50	CABLE 42053	102N DY	1.00	EA N	4.68	81017		K		.0
MTPCC 1	23309 A	00M51	00M51	CABLE 42054	102N DY	1.00	EA N	4.66	81017		K		.0
MTPCC 1	23309 A	00M52	00M52	CABLE 434508	102N DY	1.00	EA N	.93	81017		K		.0
MTPCC 1	23309 A	00M59	00M59	MISC CABLE	102N DY	1.00	EA N	.25	81017		K		.0
MTPCC 1	23309 B	00M51	00M51	CABLE HT 42054	102N DY	1.00	EA N	.93	81017		K		.0
MTPCC 1	23309 B	00M59	00M59	MISC CABLE REPAIR	102N DY	1.00	EA N	.25	81017		K		.0
MTPCC 1	23309 B	00M50	00M50	CABLE 42053	102N DY	1.00	EA N	.68	81017		K		.0
MTPCC 1	23313 A	00M15	00M15	O/H CABLE 419323	DY	1.00	EA N	1.86	86256		K		.0
MTPCC 1	23313 A	00M50	00M50	O/H CABLE 448617	DY	1.00	EA N	1.88	86256		K		.0
MTPCC 1	23313 A	00M53	00M53	RECOND CABLE 10-166496-1	DY	1.00	EA N	.85	86256		K		.0
MTPCC 1	23313 A	00M54	00M54	O/H CABLE 10-166497-1	DY	1.00	EA N	.85	86256		K		.0
MTPCC 1	23313 A	00M55	00M55	O/H CABLE 10-166498-1	DY	1.00	EA N	.77	86256		K		.0
MTPCC 1	24101 A	00M66	00M66	TF41 TS TEMP BOX 6861895	DY	1.00	EA N	.71	86220		K		.0
MTPCC 1	24101 A	00M67	00M67	TF41 THERMO T-1 6866874	DY	1.00	EA N	.73	86209		K		.0
MTPCC 1	24101 A	00M68	00M68	TF41 LEAD ASSY R/H 6861471	DY	1.00	EA N	.90	86212		K		.0
MTPCC 1	24101 A	00M69	00M69	MISC CABLE REP	102N DY	1.00	EA N	.25	81017		K		.0
MTPCC 1	24101 A	00M70	00M70	TF41 PWR HARNESS 6868773	DY	1.00	EA N	8.33	86223		K		.0
MTPCC 1	24101 A	00M73	00M73	TF41 THERMAL BLUB 6861673	DY	1.00	EA N	.50	86139		K		.0
MTPCC 1	24101 A	00M74	00M74	TF41 PRESS F/SWITCH 6866300	DY	1.00	EA N	.97	86139		K		.0
MTPCC 1	24101 A	00M75	00M75	TF41 TS HARNESS 6861778	DY	1.00	EA N	.68	86190		K		.0

LABOR STANDARD MASTER FILE										04/30/89		A-E0468-MM3-MX-290		PAGE 6	
MTPC	RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCCUR FACTOR	UNIT COUNT	TYPE STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS			
MTPCC 1	24101 A	00M76	TF41 T5 HARNESS POS	6866872	DY	1.00	EA	N	.77	86190	K	.0			
MTPCC 1	24101 A	00M77	TF41 T5 HARNESS NEG	6866873	DY	1.00	EA	N	.77	86191	K	.0			
MTPCC 1	24101 A	00M78	TF41 LEAD ASSY L/H	6865872	DY	1.00	EA	N	.90	86192	K	.0			
MTPCC 1	24101 A	00M80	REP TF41 REM CABLE	23004350	DY	1.00	EA	N	.50	88012	K	.0			
MTPCC 1	24101 B	00M66	TF41 T5 TEMP BOX	6861895	DY	1.00	EA	N	.53	86220	K	.0			
MTPCC 1	24101 B	00M67	TF41 THERMO T-1	6866874	DY	1.00	EA	N	.54	86209	K	.0			
MTPCC 1	24101 B	00M68	TF41 LEAD ASSY R/H	6865871	DY	1.00	EA	N	.67	86212	K	.0			
MTPCC 1	24101 B	00M69	MISC CABLE	111N	DY	1.00	EA	N	.18	81332	K	.0			
MTPCC 1	24101 B	00M70	TF41 PWR HARNESS	6868773	DY	1.00	EA	N	6.24	86223	K	.0			
MTPCC 1	24101 B	00M73	TF41 THERMAL BLUB	6861673	DY	1.00	EA	N	.37	86139	K	.0			
MTPCC 1	24101 B	00M74	TF41 PRESS F/SWITCH	6866300	DY	1.00	EA	N	.73	86139	K	.0			
MTPCC 1	24101 B	00M75	TF41 T5 HARNESS ASY	6861778	DY	1.00	EA	N	.51	86190	K	.0			
MTPCC 1	24101 B	00M76	TF41 T5 HARNESS POS	6866872	DY	1.00	EA	N	.57	86190	K	.0			
MTPCC 1	24101 B	00M77	TF41 T5 HARNESS NEG	6866873	DY	1.00	EA	N	.57	86191	K	.0			
MTPCC 1	24101 B	00M78	TF41 LEAD ASSY L/H	6865872	DY	1.00	EA	N	.67	86192	K	.0			
MTPCC 1	24101 B	00M80	REP TF41 REM CABLE	23004350	DY	1.00	EA	N	.37	88012	K	.0			
MTPCC 1	24101 G	00M06	TDR ENG ACCY	TF41A1 102N	DY	1.00	EA	N	1.00	81017	K	.0			
MTPCC 1	24102 A	00M51	TF41 T3 HARNESS ASSY	6867264	DY	1.00	EA	N	.68	81017	K	.0			
MTPCC 1	24102 A	00M52	WORKHORSE HARNS	6867264 102N	DY	1.00	EA	N	.01	81017	K	.0			
MTPCC 1	24102 A	00M59	TF41 LEAD ASSY T5	6865848	DY	1.00	EA	N	.68	81017	K	.0			
MTPCC 1	24102 A	00M66	TF41 T5 TEMP BOX	6861895	DY	1.00	EA	N	.71	86220	K	.0			
MTPCC 1	24102 A	00M67	TF41 THERMO T-1	6866879	DY	1.00	EA	N	.73	86209	K	.0			
MTPCC 1	24102 A	00M68	TF41 LEAD ASSY R/H	6865871	DY	1.00	EA	N	.90	86212	K	.0			
MTPCC 1	24102 A	00M69	MISC CABLE REPAIR	102N	DY	1.00	EA	N	.25	81017	K	.0			
MTPCC 1	24102 A	00M70	O/H TF41 PW HARNESS	8899451	DY	1.00	EA	N	11.00	85081	K	.0			
MTPCC 1	24102 A	00M73	TF41 THERMAL BLUB	6861673	DY	1.00	EA	N	.50	86139	K	.0			

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MTPC	RCC FAC	CTL NO	J NO	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	UNIT TYPE	STD HOURS	LAST REVIEW	IND	A/R CD	FLOW HRS
	MTPCC 1	24102 A	00M74	TF41	PRESS F/SWITCH 8866300	DY	1.00	EA	N	.97	86139		K	.0
	MTPCC 1	24102 A	00M75	TF41	TS LEAD ASSY 8866304	DY	1.00	EA	N	.68	86190		K	.0
	MTPCC 1	24102 A	00M76	TF41	TS HARNESS POS 8868872	DY	1.00	EA	N	.77	86191		K	.0
	MTPCC 1	24102 A	00M77	TF41	TS HARNESS NEG 8868873	DY	1.00	EA	N	.77	86191		K	.0
	MTPCC 1	24102 A	00M78	TF41	LEAD ASSY L/H 8865872	DY	1.00	EA	N	.90	86192		K	.0
	MTPCC 1	24102 B	00M06	TDR	ENG ACCY TF41-A2 106N	DY	1.00	EA	N	.86	81140		K	.0
	MTPCC 1	24102 B	00M06	TDR	TF41-A400 ENG ACCY 102N	DY	1.00	EA	N	1.22	81020		K	.0
	MTPCC 1	24402 A	00M10	RECODE	EMS HARNESS 23008511	DY	1.00	EA	N	1.00	87266		A	.0
	MTPCC 1	24402 A	00M68	REP	TF41 TS TEMP BOX 8879618	DY	1.00	EA	N	.71	87285		A	.0
	MTPCC 1	24402 A	00M67	REP	TF41 THERMO T1 8869883	DY	1.00	EA	N	.73	87266		A	.0
	MTPCC 1	24402 A	00M68	REP	TF41 LEAD R H 8892439	DY	1.00	EA	N	.90	87266		A	.0
	MTPCC 1	24402 A	00M70	REP	TF41 PWR HARNESS 8893136	DY	1.00	EA	N	8.33	87266		K	.0
	MTPCC 1	24402 A	00M73	TST	TF41 THERM BULB 8861673	DY	1.00	EA	N	.50	87267		A	.0
	MTPCC 1	24402 A	00M74	REP	TF41 F PRESS SW 8866300	DY	1.00	EA	N	.97	87267		K	.0
	MTPCC 1	24402 A	00M75	REP	TF41 TS LEAD 8866304	DY	1.00	EA	N	.68	87267		K	.0
	MTPCC 1	24402 A	00M76	REP	TF41 TS HARN POS 8869897	DY	1.00	EA	N	.77	87267		A	.0
	MTPCC 1	24402 A	00M77	REP	TF41 TS HARN NEG 8869896	DY	1.00	EA	N	.77	87267		A	.0
	MTPCC 1	24402 A	00M78	REP	TF41 LEAD L H 8892440	DY	1.00	EA	N	.90	87267		A	.0
	MTPCC 1	24402 B	00M10	RECODE	TF41 EMS H 23008119	DY	1.00	EA	N	.75	87273		A	.0
	MTPCC 1	24402 B	00M51	REP	TF41 T3 HARN 8869984	DY	1.00	EA	N	.51	87278		A	.0
	MTPCC 1	24402 B	00M66	R2P	TF41 TS JUNC BOX 8879616	DY	1.00	EA	N	.53	87273		A	.0
	MTPCC 1	24402 B	00M67	REP	TF41 T1 THERMO 8869897	DY	1.00	EA	N	.54	87273		A	.0
	MTPCC 1	24402 B	00M68	REP	TF41 IGN LD R H 8892440	DY	1.00	EA	N	.67	87273		A	.0
	MTPCC 1	24402 B	00M70	REP	TF41 PWR HARNESS 889452	DY	1.00	EA	N	2.10	87272		A	.0
	MTPCC 1	24402 B	00M78	REP	TF41 TS HARN POS 8869897	DY	1.00	EA	N	.57	87273		K	.0
	MTPCC 1	24402 B	00M77	REP	TF41 TS HARN NEG 8869896	DY	1.00	EA	N	.57	87278		A	.0

MTPC	RCC FAC	GTL J NO	OPER NO	LABOR STANDARD MASTER FILE	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	UNIT TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
				04/30/89	A-E0468-MM3-MX-290									
MTPCC	1	24402	B	00M78	REP TF41 LEAD L/H 8892439	DY	1.00	EA	N	.67	87278		A	.0
MTPCC	1	24402	B	00M79	REP TF41 T1 LEAD 8869997	DY	1.00	EA	N	.37	87278		A	.0
MTPCC	1	28743	A	00M80	LEAD 10-106815-1J57-43 102N	DY	1.00	EA	N	.68	81022		K	.0
MTPCC	1	28743	A	00M81	LEAD 10-111800-1 J57-43 102N	DY	1.00	EA	N	5.50	88187		K	.0
MTPCC	1	28743	A	00M82	LEAD 10-160116-1 J57-43 102N	DY	1.00	EA	N	.68	81022		K	.0
MTPCC	1	28743	A	00M83	LEAD 10-160118-1 J57-43 102N	DY	1.00	EA	N	.68	81022		K	.0
MTPCC	1	28743	A	00M84	HARNES J57-43 348282 207N	DY	1.00	EA	N	.93	82181		F	.0
MTPCC	1	28743	A	00M85	HARNES 323145 J57-43 102N	DY	1.00	EA	N	.93	81022		K	.0
MTPCC	1	28743	A	00M86	CABLE 10-168491-1 J5-43 102N	DY	1.00	EA	N	1.48	81022		K	.0
MTPCC	1	28743	A	00M87	CABLE 10-111809-1 102N	DY	1.00	EA	N	1.48	81022		K	.0
MTPCC	1	28743	B	00M88	MICS CABLE REPAIR 102N	DY	1.00	EA	N	.25	81022		A	.0
MTPCC	1	28759	A	00M89	LEAD 10-108815-1	DY	1.00	EA	N	.68	89027		A	.0
MTPCC	1	28759	A	00M90	LEAD 10-111800-1	DY	1.00	EA	N	5.50	89027		A	.0
MTPCC	1	28759	A	00M91	LEAD 10-160116-1	DY	1.00	EA	N	.68	89027		A	.0
MTPCC	1	28759	A	00M92	LEAD 10-160115-1	DY	1.00	EA	N	.68	89027		A	.0
MTPCC	1	28759	A	00M93	HARNES 348282	DY	1.00	EA	N	.93	89027		A	.0
MTPCC	1	28759	A	00M94	HARNES 323145	DY	1.00	EA	N	.93	89027		A	.0
MTPCC	1	28759	A	00M95	CABLE 10-168491-1	DY	1.00	EA	N	1.48	89027		A	.0
MTPCC	1	28759	A	00M96	CABLE 10-111805-1	DY	1.00	EA	N	1.48	89027		A	.0
MTPCC	1	28759	B	00M97	MISC CABLE REPAIR J57-59	DY	1.00	EA	N	.25	89027		A	.0
MTPCC	1	27914	A	00M98	J79 THR LEAD FLEX 106C2689P1	DY	1.00	EA	N	.55	83176		K	.0
MTPCC	1	27914	A	00M99	J79 CABLE ICM 41825 J06N	DY	1.00	EA	N	.47	83176		K	.0
MTPCC	1	27914	A	00M00	J79 LEAD MAIN #2 517D377P2	DY	1.00	EA	N	.54	83176		K	.0
MTPCC	1	27914	A	00M01	J79 CAB ICM MAIN 106C5282P1	DY	1.00	EA	N	.53	83176		K	.0
MTPCC	1	27914	A	00M02	J79 LEAD ICM A/B 5120833P3	DY	1.00	EA	N	.48	83176		K	.0
MTPCC	1	27914	A	00M03	J79 THR LEAD RIG 106C2691P2	DY	1.00	EA	N	.55	83176		K	.0

LABOR STANDARD MASTER FILE										04/30/89	A-E046B-MM3-MX-290	PAGE	9
RCC FAC	CIL J	OPER	DESCRIPTION	SKILL	OCUR	UNIT	TYPE	LAST	STD	A/R	FLOW		
NO	NO	NO		CODE	FACTOR	COUNT		REVIEW	HOURS	CD	HRS		
MTPCC	1	27914 A	00M35 J79 ELECT CABLE 3015M19P1	DY	1.00	EA	N	.45	83176	K	.0		
MTPCC	1	27914 A	00M60 J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	83176	K	.0		
MTPCC	1	27914 A	00M65 J79 LEAD IGN 105B422P1 306M	DY	1.00	EA	N	.60	83176	K	.0		
MTPCC	1	27914 A	00M70 J79 CABLE ASSY 517D579P01	DY	1.00	EA	N	2.75	88182	K	.0		
MTPCC	1	27914 A	00M75 J79 CABLE 105B2411P2 306M	DY	1.00	EA	N	.50	83176	K	.0		
MTPCC	1	27914 B	00M25 J79 THR LEAD FLEX 106C2689P1	DY	1.00	EA	N	.02	83176	K	.0		
MTPCC	1	27914 B	00M30 J79 CABLE IGN 4125 306M	DY	1.00	EA	N	.02	83176	K	.0		
MTPCC	1	27914 B	00M35 J79 LEAD MAIN #2 517D377P2	DY	1.00	EA	N	.02	83176	K	.0		
MTPCC	1	27914 B	00M40 J79 CAB IGN MAIN 106C5282P1	DY	1.00	EA	N	.02	83176	K	.0		
MTPCC	1	27914 B	00M45 J79 LEAD IGN A/B 512D533P3	DY	1.00	EA	N	.02	83176	K	.0		
MTPCC	1	27914 B	00M50 J79 THR LEAD RIG 106C2691P2	DY	1.00	EA	N	.02	83176	K	.0		
MTPCC	1	27914 B	00M55 J79 ELECT CABLE 3015M19P1	DY	1.00	EA	N	.02	83176	K	.0		
MTPCC	1	27914 B	00M60 J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.02	83176	K	.0		
MTPCC	1	27914 B	00M65 J79 LEAD IGN 105B5422P1 306M	DY	1.00	EA	N	.02	83176	K	.0		
MTPCC	1	27914 B	00M70 J79 CABLE ASSY 517D579P01	DY	1.00	EA	N	.03	88182	K	.0		
MTPCC	1	27915 A	00M25 J79 LEAD THR FLEX 106C2689P1	DY	1.00	EA	N	.55	81290	K	.0		
MTPCC	1	27915 A	00M30 J79 CAB IGNITION 4125 106M	DY	1.00	EA	N	.47	81290	K	.0		
MTPCC	1	27915 A	00M35 J79 LEAD MAIN IGN 517D377P2	DY	1.00	EA	N	.54	81301	K	.0		
MTPCC	1	27915 A	00M40 J79 CAB MAIN IGN 106C5282P1	DY	1.00	EA	N	.53	81290	K	.0		
MTPCC	1	27915 A	00M45 J79 LEAD IGN A/B 512D533P3	DY	1.00	EA	N	.48	81315	K	.0		
MTPCC	1	27915 A	00M50 J79 THR LEAD RIG 106C2691P2	DY	1.00	EA	N	.55	81290	K	.0		
MTPCC	1	27915 A	00M55 J79 ELECT CABLE 3015M19P1	DY	1.00	EA	N	.45	81290	K	.0		
MTPCC	1	27915 A	00M60 J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	81301	K	.0		
MTPCC	1	27915 A	00M65 J79 LEAD IGN 105B5422P1	DY	1.00	EA	N	.50	81301	K	.0		
MTPCC	1	27915 A	00M70 J79 CABLE ASSY 517D579P01	DY	1.00	EA	N	2.75	88182	K	.0		

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MTPC	RCC	FAC	CTL	J	OPER	DESCRIPTION	SKILL	OCCUR	UNIT	TYPE	STD	LAST	A/R	FLOW
					NO		CODE	FACTOR	COUNT		HOURS	REVIEW	CD	HRS
	MTPCC	1	27915	A	00M78	J79 CAB SPEC PUR 108B2411P2	DY	1.00	EA	N	.50	81315	K	.0
	MTPCC	1	27915	B	00M25	J79 LEAD THR FLEX 106C2689P1	DY	1.00	EA	N	.02	82233	K	.0
	MTPCC	1	27915	B	00M39	J79 CAB IGNITION 41825 109M	DY	1.00	EA	N	.02	82233	K	.0
	MTPCC	1	27915	B	00M38	J79 LEAD MAIN IGN 517D377P2	DY	1.00	EA	N	.02	82233	K	.0
	MTPCC	1	27915	B	00M40	J79 CAB MAIN IGN 106C5282P1	DY	1.00	EA	N	.02	82233	K	.0
	MTPCC	1	27915	B	00M45	J79 LEAD IGN A/B 5120833P3	DY	1.00	EA	N	.02	82233	K	.0
	MTPCC	1	27915	B	00M60	J79 THR LEAD RIG 106C2691P2	DY	1.00	EA	N	.02	82233	K	.0
	MTPCC	1	27915	B	00M65	J79 ELECT CABLE 3015M19P1	DY	1.00	EA	N	.02	82233	K	.0
	MTPCC	1	27915	B	00M60	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.02	82233	K	.0
	MTPCC	1	27915	B	00M65	J79 LEAD IGN 108B5422P1	DY	1.00	EA	N	.02	82233	K	.0
	MTPCC	1	27915	B	00M70	J79 CABLE ASSY 5170579P01	DY	1.00	EA	N	.03	88182	K	.0
	MTPCC	1	27915	B	00M78	J79 CAB SPEC PUR 108B2411P2	DY	1.00	EA	N	.02	82233	K	.0
	MTPCC	1	27917	A	00M22	J79 SWITCH 5032M29P01	DY	1.00	EA	N	.50	83104	K	.0
	MTPCC	1	27917	A	00M25	J79 LEAD THR FLEX 106C2689P1	DY	1.00	EA	N	.55	81290	K	.0
	MTPCC	1	27917	A	00M30	J79 CABLE IGN 41825	DY	1.00	EA	N	.47	81290	K	.0
	MTPCC	1	27917	A	00M35	J79 LEAD MAIN IGN 517D377P2	DY	1.00	EA	N	.54	81290	K	.0
	MTPCC	1	27917	A	00M40	J79 CAB MAIN IGN 106C5282P1	DY	1.00	EA	N	.53	81290	K	.0
	MTPCC	1	27917	A	00M45	J79 LEAD IGN A/B 5170819P01	DY	1.00	EA	N	.48	81290	K	.0
	MTPCC	1	27917	A	00M60	J79 THR LEAD RIG 106C2691P2	DY	1.00	EA	N	.55	81290	K	.0
	MTPCC	1	27917	A	00M65	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.45	81290	K	.0
	MTPCC	1	27917	A	00M60	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	81301	K	.0
	MTPCC	1	27917	A	00M65	J79 LEAD IGN 108B5422P1	DY	1.00	EA	N	.50	81315	K	.0
	MTPCC	1	27917	A	00M70	J79 LEAD ELECT 5035M94P01	DY	1.00	EA	N	2.75	88182	K	.0
	MTPCC	1	27917	A	00M75	J79 CAB SPEC PUR 108B2411P2	DY	1.00	EA	N	.50	81315	K	.0
	MTPCC	1	27917	A	00M80	J79 ELECT LEAD 5032M26P02	DY	1.00	EA	N	.45	82219	K	.0
	MTPCC	1	27917	B	00M22	J79 SWITCH 5032M29P01	DY	1.00	EA	N	.25	83260	K	.0

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MTPC	RCC FAC	CTL J	OPER	OPERATION DESCRIPTION	SKILL CODE	OCUR	UNIT	TYPE	STD	LAST	OPER	A/R	FLOW						
	NO	NO	NO			FACTOR	COUNT	STD	HOURS	REVIEW	IND	CD	HRS						
	MTPCC 1	27917 B	00M30	J79 LEAD THR FLEX 106C2689P1	DY	1.00	EA	N	.02	82233		K	.0						
	MTPCC 1	27917 B	00M30	J79 CABLE IGM 41825	DY	1.00	EA	N	.02	82233		K	.0						
	MTPCC 1	27917 B	00M30	J79 LEAD MAIN IGM 517D377P2	DY	1.00	EA	N	.02	82233		K	.0						
	MTPCC 1	27917 B	00M40	J79 CAB MAIN IGM 106C8282P1	DY	1.00	EA	N	.02	82233		K	.0						
	MTPCC 1	27917 B	00M45	J79 LEAD IGM A/B 517D818P01	DY	1.00	EA	N	.02	82233		K	.0						
	MTPCC 1	27917 B	00M50	J79 THR LEAD RIG 106C2689P1	DY	1.00	EA	N	.02	82233		K	.0						
	MTPCC 1	27917 B	00M55	J79 THR LEAD RIG 106C2689P2	DY	1.00	EA	N	.02	82233		K	.0						
	MTPCC 1	27917 B	00M60	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.02	82233		K	.0						
	MTPCC 1	27917 B	00M65	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.02	82233		K	.0						
	MTPCC 1	27917 B	00M70	J79 LEAD IGM 1058542P1	DY	1.00	EA	N	.03	88182		K	.0						
	MTPCC 1	27917 B	00M75	J79 CAB SPEC PUR 10582411P2	DY	1.00	EA	N	.02	82233		K	.0						
	MTPCC 1	27917 B	00M80	J79 ELECT LEAD 5032M26P02	DY	1.00	EA	N	.02	83176		K	.0						
	MTPCC 1	27918 A	00M22	J79 SWITCH 5032M26P01	DY	1.00	EA	N	.50	83239		K	.0						
	MTPCC 1	27918 A	00M25	J79 THR LEAD FLEX 106C2689P1	DY	1.00	EA	N	.55	83187		K	.0						
	MTPCC 1	27918 A	00M30	J79 CABLE IGM 41825	DY	1.00	EA	N	.47	83187		K	.0						
	MTPCC 1	27918 A	00M35	J79 LEAD MAIN IGM 517D377P2	DY	1.00	EA	N	.54	83187		K	.0						
	MTPCC 1	27918 A	00M40	J79 CAB MAIN IGM 106C8282P1	DY	1.00	EA	N	.53	83187		K	.0						
	MTPCC 1	27918 A	00M45	J79 LEAD IGM A/B 517D818P01	DY	1.00	EA	N	.48	83187		K	.0						
	MTPCC 1	27918 A	00M50	J79 THR LEAD RIG 106C2689P2	DY	1.00	EA	N	.55	83187		K	.0						
	MTPCC 1	27918 A	00M55	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.45	83187		K	.0						
	MTPCC 1	27918 A	00M60	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	83187		K	.0						
	MTPCC 1	27918 A	00M65	J79 LEAD IGM 1058542P1	DY	1.00	EA	N	.50	83187		K	.0						
	MTPCC 1	27918 A	00M70	J79 LEAD ELECT 5035M75P01	DY	1.00	EA	N	2.75	88182		K	.0						
	MTPCC 1	27918 A	00M75	J79 CABLE SPE PUR 10582411P2	DY	1.00	EA	N	.50	83187		K	.0						
	MTPCC 1	27918 A	00M80	J79 LEAD ELECT 5032M26P02	DY	1.00	EA	N	.45	83187		K	.0						
	MTPCC 1	27918 B	00M22	J79 SWITCH 5032M26P01	DY	1.00	EA	N	.25	83239		K	.0						

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MTPC	RCC FAC	CTL J NO	OPER NO	LABOR STANDARD MASTER FILE	SKILL CODE	OCUR FACTOR	UNIT COUNT	A-EC45B-MM3-MX-290	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HPS	PAGE 12
	MTPCC 1	27918 B	00825	J79 THR LEAD FLEX 106C2689P1	DY	1.00	EA	N	.02	83176		K	.0	
	MTPCC 1	27918 B	00830	J79 CABLE IGN 41825	DY	1.00	EA	N	.02	83211		K	.0	
	MTPCC 1	27918 B	00835	J79 LEAD MAIN IGN 517D377P2	DY	1.00	EA	N	.02	83176		K	.0	
	MTPCC 1	27918 B	00840	J79 CAB MAIN IGN 106C5282P1	DY	1.00	EA	N	.02	83176		K	.0	
	MTPCC 1	27918 B	00845	J79 LEAD IGN A/B 517D818P01	DY	1.00	EA	N	.02	83176		K	.0	
	MTPCC 1	27918 B	00850	J79 THER LEAD RIG 106C2691P2	DY	1.00	EA	N	.02	83176		K	.0	
	MTPCC 1	27918 B	00855	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.02	83176		K	.0	
	MTPCC 1	27918 B	00860	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.02	83176		K	.0	
	MTPCC 1	27918 B	00865	J79 LEAD IGN 1088B422P1	DY	1.00	EA	N	.02	83176		K	.0	
	MTPCC 1	27918 B	00870	J79 LEAD ELECT 5035M94P01	DY	1.00	EA	N	.03	88182		K	.0	
	MTPCC 1	27918 B	00875	J79 CABLE SPE PUR 105B2411P2	DY	1.00	EA	N	.02	83176		K	.0	
	MTPCC 1	27918 B	00880	J79 LEAD ELECT 5032M26P02	DY	1.00	EA	N	.04	83176		K	.0	
	MTPCC 1	27919 A	00821	J79 SWITCH 5032M25P01	DY	1.00	EA	N	.50	83239		K	.0	
	MTPCC 1	27919 A	00826	J79 THR LEAD FLEX 106C2689P1	DY	1.00	EA	N	.55	83187		A	.0	
	MTPCC 1	27919 A	00830	J79 CABLE IGN 41825	DY	1.00	EA	N	.47	83187		A	.0	
	MTPCC 1	27919 A	00835	J79 LEAD MAIN IGN 517D377P2	DY	1.00	EA	N	.54	83187		A	.0	
	MTPCC 1	27919 A	00840	J79 CAB MAIN IGN 106C5282P1	DY	1.00	EA	N	.53	83187		A	.0	
	MTPCC 1	27919 A	00845	J79 LEAD IGN A/B 517D818P01	DY	1.00	EA	N	.48	83187		A	.0	
	MTPCC 1	27919 A	00850	J79 THER LEAD RIG 106C2691P2	DY	1.00	EA	N	.55	83187		A	.0	
	MTPCC 1	27919 A	00855	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.45	83187		A	.0	
	MTPCC 1	27919 A	00860	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	83187		A	.0	
	MTPCC 1	27919 A	00865	J79 LEAD IGN 1088B422P1	DY	1.00	EA	N	.50	83187		A	.0	
	MTPCC 1	27919 A	00870	J79 LEAD ELECT 5035M94P01	DY	1.00	EA	N	2.75	88182		K	.0	
	MTPCC 1	27919 A	00875	J79 CABLE SPE PUR 105B2411P2	DY	1.00	EA	N	.50	83187		A	.0	
	MTPCC 1	27919 A	00880	J79 LEAD ELECT 5032M26P02	DY	1.00	EA	N	.45	83187		A	.0	
	MTPCC 1	27924 A	00825	J79 LEAD THR FLEX 106C2689P1	DY	1.00	EA	N	.55	81290		K	.0	

MTPC	ACC FAC	CTL J NO	OPER NO	LABOR STANDARD MASTER FILE	SKILL CODE	OCUR FACTOR	UNIT COUNT	04/30/89	A-EO46B-MM3-MX-290	TYPE	STD HOURS	LAST REVIEW	OPER INO	A/R CD	PAGE	FLOW HRS
MTPCC 1	27924 A	00M30	J79	CABLE IGN 41825	DY	1.00	EA	1.00	N	N	.47	81290	K	13	.0	
MTPCC 1	27924 A	00M35	J79	LEAD MAIN IGN 5170377P2	DY	1.00	EA	1.00	N	N	.54	81290	K		.0	
MTPCC 1	27924 A	00M40	J79	CAB MAIN IGN 106C5282P1	DY	1.00	EA	1.00	N	N	.53	81290	K		.0	
MTPCC 1	27924 A	00M45	J79	LEAD IGN A/B 5120833P3	DY	1.00	EA	1.00	N	N	.48	81315	K		.0	
MTPCC 1	27924 A	00M50	J79	THR LEAD RIG 106C2691P2	DY	1.00	EA	1.00	N	N	.55	81290	K		.0	
MTPCC 1	27924 A	00M55	J79	ELECT CABLE 3018M19P1	DY	1.00	EA	1.00	N	N	.22	88313	K		.0	
MTPCC 1	27924 A	00M60	J79	CABLE ASSY 5014M45P02	DY	1.00	EA	1.00	N	N	.57	81301	K		.0	
MTPCC 1	27924 A	00M65	J79	LEAD IGN 10885422P1	DY	1.00	EA	1.00	N	N	.50	81301	K		.0	
MTPCC 1	27924 A	00M70	J79	CABLE ASSY 5170879P01	DY	1.00	EA	1.00	N	N	2.75	86182	K		.0	
MTPCC 1	27924 A	00M75	J79	CAB SPEC PUP 10582411P2	DY	1.00	EA	1.00	N	N	.50	88308	K		.0	
MTPCC 1	27925 A	00M22	J79	SWITCH 5032M29P01	DY	1.00	EA	1.00	N	N	50	83104	K		.0	
MTPCC 1	27925 A	00M25	J79	LEAD THR FLEX 106C2688P1	DY	1.00	EA	1.00	N	N	.55	81290	K		.0	
MTPCC 1	27925 A	00M30	J79	CABLE IGN 41825	DY	1.00	EA	1.00	N	N	.47	81290	K		.0	
MTPCC 1	27925 A	00M35	J79	LEAD MAIN IGN 5170377P2	DY	1.00	EA	1.00	N	N	.54	81290	K		.0	
MTPCC 1	27925 A	00M40	J79	CAB MAIN IGN 106C5282P1	DY	1.00	EA	1.00	N	N	.53	81290	K		.0	
MTPCC 1	27925 A	00M45	J79	LEAD IGN A/B 5170818P01	DY	1.00	EA	1.00	N	N	.48	81290	K		.0	
MTPCC 1	27925 A	00M50	J79	THR LEAD RIG 106C2691P2	DY	1.00	EA	1.00	N	N	.55	81290	K		.0	
MTPCC 1	27925 A	00M55	J79	ELECT CABLE 5035M75P01	DY	1.00	EA	1.00	N	N	.45	81290	K		.0	
MTPCC 1	27925 A	00M60	J79	CABLE ASSY 5014M45P02	DY	1.00	EA	1.00	N	N	.57	81301	K		.0	
MTPCC 1	27925 A	00M65	J79	LEAD IGN 10585422P1	DY	1.00	EA	1.00	N	N	.50	81301	K		.0	
MTPCC 1	27925 A	00M70	J79	LEAD ELECT 5035M94P01	DY	1.00	EA	1.00	N	N	2.75	88182	K		.0	
MTPCC 1	27925 A	00M75	J79	CAB SPEC PUR 10582411P2	DY	1.00	EA	1.00	N	N	.50	81315	K		.0	
MTPCC 1	27925 A	00M80	J79	ELECT LEAD 5032M26P02	DY	1.00	EA	1.00	N	N	.45	82219	K		.0	
MTPCC 1	27925 A	00M22	J79	SWITCH 5032M29P01	DY	1.00	EA	1.00	N	N	.50	83104	K		.0	
MTPCC 1	27925 A	00M25	J79	LEAD THR FLEX 106C2688P1	DY	1.00	EA	1.00	N	N	.55	81290	K		.0	
MTPCC 1	27925 A	00M30	J79	CABLE IGN 41825	DY	1.00	EA	1.00	N	N	.47	88309	A		.0	

LABOR STANDARD MASTER FILE															04/30/89	A-E0468-MM3-MX-290	PAGE 14
MTPC	RCC FAC	GIL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCCUR FACTOR	UNIT COUNT	UNIT TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS				
MTPCC	1	27928	A	00M30	J79 LEAD MAIN IGM 5170377P2	DY	1.00	EA	N	.54	81290	K	.0				
MTPCC	1	27928	A	00M40	J79 CAB MAIN IGM 106C5282P1	DY	1.00	EA	N	.53	81290	K	.0				
MTPCC	1	27928	A	00M45	J79 LEAD IGM A/B 5170818P01	DY	1.00	EA	N	.48	81290	K	.0				
MTPCC	1	27928	A	00M62	J79 THR LEAD RIG 106C2691P2	DY	1.00	EA	N	.55	81290	K	.0				
MTPCC	1	27928	A	00M65	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.45	81290	K	.0				
MTPCC	1	27928	A	00M69	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	81301	K	.0				
MTPCC	1	27928	A	00M69	J79 LEAD IGM 106B5422P1	DY	1.00	EA	N	.50	81301	K	.0				
MTPCC	1	27928	A	00M70	J79 LEAD ELECT 5035M94P01	DY	1.00	EA	N	2.75	88182	K	.0				
MTPCC	1	27928	A	00M73	J79 CAB SPEC PUR 105B2411P2	DY	1.00	EA	N	.50	81315	K	.0				
MTPCC	1	27928	A	00M60	J79 ELECT LEAD 5032M26P02	DY	1.00	EA	N	.45	82219	K	.0				
MTPCC	1	27927	A	00M22	J79 SWITCH 5032M29P01	DY	1.00	EA	N	.50	83104	K	.0				
MTPCC	1	27927	A	00M25	J79 LEAD THR FLEX 106C3689P1	DY	1.00	EA	N	.55	81290	K	.0				
MTPCC	1	27927	A	00M30	J79 CABLE IGM 41825	DY	1.00	EA	N	.47	88340	K	.0				
MTPCC	1	27927	A	00M38	J79 LEAD MAIN IGM 5170377P2	DY	1.00	EA	N	.54	81290	K	.0				
MTPCC	1	27927	A	00M40	J79 CAB MAIN IGM 106C5282P1	DY	1.00	EA	N	.53	81290	K	.0				
MTPCC	1	27927	A	00M48	J79 LEAD IGM A/B 5170818P01	DY	1.00	EA	N	.48	81290	K	.0				
MTPCC	1	27927	A	00M50	J79 THR LEAD RIG 106C2691P2	DY	1.00	EA	N	.55	81290	K	.0				
MTPCC	1	27927	A	00M55	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.45	81290	K	.0				
MTPCC	1	27927	A	00M60	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	81301	K	.0				
MTPCC	1	27927	A	00M65	J79 LEAD IGM 105B5422P1	DY	1.00	EA	N	.50	81301	K	.0				
MTPCC	1	27927	A	00M70	J79 LEAD ELECT 5035M94P01	DY	1.00	EA	N	2.75	88182	K	.0				
MTPCC	1	27927	A	00M75	J79 CAB SPEC PUR 105B2411P2	DY	1.00	EA	N	.50	81315	K	.0				
MTPCC	1	27927	A	00M78	J79 CAB SPEC PUR 105B2411P2	DY	1.00	EA	N	.50	81315	K	.0				
MTPCC	1	27927	A	00M80	J79 ELECT LEAD 5032M26P02	DY	1.00	EA	N	.45	82219	K	.0				
MTPCC	1	27928	A	00M22	J79 SWITCH 5032M29P01	DY	1.00	EA	N	.50	83104	A	.0				
MTPCC	1	27928	A	00M25	J79 LEAD THR FLEX 106C3689P1	DY	1.00	EA	N	.55	81290	A	.0				
MTPCC	1	27928	A	00M30	J79 CABLE IGM 41825	DY	1.00	EA	N	.47	81290	K	.0				

MTPC	RCC FAC	CTL J	OPER	LABOR STANDARD MASTER FILE	SKILL	OCUR	UNIT	TYPE	LAST	STD	OPR	IND	A/R	CD	FLOW	PAGE
		NO	NO	DESCRIPTION	CODE	FACTOR	COUNT		OPR	HOURS	IND		CD		HRS	15
MTPCC 1	27928 A	00M08	J79	LEAD MAIN IGM 817D377P2	DY	1.00	EA	N	81290	.54	81290		A		.0	
MTPCC 1	27928 A	00M40	J79	CAB MAIN IGM 106CS282P1	DY	1.00	EA	N	81290	.53	81290		A		.0	
MTPCC 1	27928 A	00M45	J79	LEAD IGM A/S 8170818P01	DY	1.00	EA	N	81290	.48	81290		A		.0	
MTPCC 1	27928 A	00M60	J79	THR LEAD RIG 108C268P2	DY	1.00	EA	N	81290	.55	81290		A		.0	
MTPCC 1	27928 A	00M65	J79	ELECT CABLE 803BM78P01	DY	1.00	EA	N	81290	.45	81290		A		.0	
MTPCC 1	27928 A	00M60	J79	CABLE ASSY 8014M45P02	DY	1.00	EA	N	81301	.57	81301		A		.0	
MTPCC 1	27928 A	00M65	J79	LEAD IGM 108B842P1	DY	1.00	EA	N	81301	.50	81301		A		.0	
MTPCC 1	27928 A	00M70	J79	LEAD ELECT 803SM84P01	DY	1.00	EA	N	88182	2.75	88182		K		.0	
MTPCC 1	27928 A	00M75	J79	CAB SPEC PUM 108B241P2	DY	1.00	EA	N	81315	.50	81315		A		.0	
MTPCC 1	27928 A	00M80	J79	ELECT LEAD 8032M26P02	DY	1.00	EA	N	82219	.45	82219		A		.0	
MTPCC 1	29024 A	00M05		SHAFT 109N	BY	1.00	EA	N	81259	1.00	81259		A		.0	
MTPCC 1	29043 A	00M05		SHAFT 109N	BY	1.00	EA	N	81259	1.00	81259		A		.0	
MTPCC 1	29412 A	00M05		SHAFT 109N	BY	1.00	EA	N	81259	1.00	81259		A		.0	
MTPCC 1	29412 A	00M60		CABLE SENS 10-352847-1	BY	1.00	EA	N	86177	.68	86177		K		.0	
MTPCC 1	30011 A	00M65		CABLE BRANCHED 301-3200 007M	DY	1.00	EA	N	80209	2.30	80209		K		.0	
MTPCC 1	30035 A	00M08		REP SOLENOID 698B03A 102N	DY	1.00	EA	N	81022	.37	81022		K		.0	
MTPCC 1	30035 A	00M10		HARNESS P/N 54552 102M	DY	1.00	EA	N	82247	.69	82247		K		.0	
MTPCC 1	30041 A	00M08		REP CSD HARNESS 692104A007M	DY	1.00	EA	N	80211	.03	80211		F		.0	
MTPCC 1	30045 A	00M05		REP CSD COMPTS F-111 007M	DY	1.00	EA	N	80209	.99	80209		K		.0	
MTPCC 1	30057 A	00M05		HARNESS ASSY CSD 54528 106N	DY	1.00	EA	N	81140	.06	81140		K		.0	
MTPCC 1	30180 A	00M05		ACT 408889 007M	AV	1.00	EA	N	80208	3.32	80208		K		.0	
MTPCC 1	31281 A	00M05		SCOOP P/N 540246-6 301N	BY	1.00	EA	N	83015	7.24	83015		K		.0	
MTPCC 1	31281 G	00M05		QDR/TDR SCOOP 540246-6 007M	BY	1.00	EA	N	80208	2.50	80208		K		.0	
MTPCC 1	31288 A	00M05		ACTUATOR 4369-1 304N	AV	1.00	EA	N	83078	3.77	83078		K		.0	
MTPCC 1	31288 A	00M05		ACT GYLC 6497 007M	AV	1.00	EA	N	80208	3.92	80208		K		.0	
MTPCC 1	31364 G	00M05		ACT QUAL ANAL 1009380 007M	AV	1.00	EA	N	80217	2.00	80217		K		.0	

LABOR STANDARD MASTER FILE															04/30/89	A-EO46B-MM3-MX-290	PAGE 16
RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	UNIT TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS					
MTPCC 1	3188A	A	00M05 ACTUATOR	115838	308N	AV	1.00	EA	N	3.23	80167	K	.0				
MTPCC 1	3188A	A	00M05 ACT	30678-17	007N	AV	1.00	EA	N	3.26	80208	K	.0				
MTPCC 1	34103	A	00M05 CABLE P/N 43278		DY	DY	1.00	EA	N	11.98	85197	K	.0				
MTPCC 1	34103	A	00M05 CABLE ASSY		DY	DY	1.00	EA	N	1.38	80167	A	.0				
MTPCC 1	34103	A	00M05 ON T		DY	DY	1.00	EA	N	6.00	80208	K	.0				
MTPCC 1	34103	A	00M05 QDR/TDR GEN		DY	DY	1.00	EA	N	1.50	81140	K	.0				
MTPCC 1	34107	A	00M05 HARNESS	54552	007N	DY	1.00	EA	N	1.65	80198	K	.0				
MTPCC 1	34107	G	00M05 QUAL ANAL HARNESS	54552	007N	DY	1.00	EA	N	1.84	80208	K	.0				
MTPCC 1	34108	A	00M05 TACH-GENERATOR		201N	DY	1.00	EA	N	1.44	82009	A	.0				
MTPCC 1	34108	A	00M05 MAJOR REPAIR TRANSDUCER		110N	DY	1.00	EA	N	7.20	82044	K	.0				
MTPCC 1	34148	A	00M05 STAT RTR	10-387925-1	007N	DY	1.00	EA	N	.96	80198	K	.0				
MTPCC 1	34149	A	00M05 BOX&CABLE	HAD15100	308N	DY	1.00	EA	N	3.45	81327	K	.0				
MTPCC 1	34149	G	00M05 BOX & CABLE	HAD15100	DY	DY	1.00	EA	N	1.00	85309	A	.0				
MTPCC 1	34156	A	00M05 CABLE TF-30	10-352650-1	111N	DY	1.00	EA	N	3.71	81327	K	.0				
MTPCC 1	34156	A	00M05 CABLE TF30	10-352648	207N	DY	1.00	EA	N	8.82	82184	F	.0				
MTPCC 1	34156	G	00M05 CABLE P/N 10-352648		212N	DY	1.00	EA	N	1.59	82345	A	.0				
MTPCC 1	34164	A	00M05 BOX&CABLE	HAD14775	309N	DY	1.00	EA	N	3.45	81327	K	.0				
MTPCC 1	34164	G	00M05 PERFORM QUAL ANALYSIS		012N	DY	1.00	EA	N	1.50	81006	A	.0				
MTPCC 1	34167	A	00M05 CABLE	10-352648-1	111N	DY	1.00	EA	N	4.70	81327	K	.0				
MTPCC 1	34167	G	00M05 CABLE P/N 10-352648-1		211N	DY	1.00	EA	N	.70	82322	A	.99.8				
MTPCC 1	34178	A	00M05 FILTER SWITCH	481895	110N	DY	1.00	EA	N	1.52	81292	K	.0				
MTPCC 1	34178	G	00M05 QUAL AUDIT SWIT	481895	004N	DY	1.00	EA	N	1.17	80167	A	.0				
MTPCC 1	34257	A	00M05 HARNESS	42440	TF33	DY	1.00	EA	N	5.71	88183	K	.0				
MTPCC 1	34324	A	00M05 QUALITY AUDIT		DY	DY	1.00	EA	N	3.08	85148	A	.0				
MTPCC 1	34324	G	00M05 CABLE	P/N 678131	308N	DY	1.00	EA	N	3.45	82184	K	.0				
MTPCC 1	34324	G	00M05 TDR CABLE		108N	DY	1.00	EA	N	1.00	81255	A	.0				

RCC FAC	CTL J NO B	OPER NO	OPER DESCRIPTION	SKILL CODE	FACTOR	UNIT COUNT	UNIT TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
MPCC 1	34327 G	00M05	ACTUATOR 1433-663089	308N	AY	1.00	EA	5.71	80209		K	.0
MPCC 1	34327 G	00M05	ACTUATOR 1433-663089	308N	AY	1.00	EA	1.50	83260		A	.0
MPCC 1	34327 G	00M05	ACTUATOR 1433-663089	308N	AY	1.00	EA	3.45	80167		K	.0
MPCC 1	34327 G	00M05	ACTUATOR 1433-663089	308N	AY	1.00	EA	1.67	80217		K	.0
MPCC 1	34415 A	00M05	OVERHAUL WIRING HARNESS	DY	DY	1.00	EA	2.00	88373		A	.0
MPCC 1	34515 G	00M05	CLUTCH PACH 42102R110 007N	BY	BY	1.00	EA	19.59	80209		K	.0
MPCC 1	34515 G	00M05	CLUTCH PACH 42102R110 007N	BY	BY	1.00	EA	5.69	80209		K	.0
MPCC 1	34512 A	00M05	ACTUATOR 1438-543054	AV	AV	1.00	EA	5.13	88210		K	.0
MPCC 1	34512 A	00M05	ACTUATOR P/N 701000 408E	AV	AV	1.00	EA	4.97	84152		K	.0
MPCC 1	34522 A	00M05	ACT GRP 1 1433-613187 005M	AV	AV	1.00	EA	5.42	80167		K	.0
MPCC 1	34522 G	00M05	TDR ACTUATOR 1433-613187	AV	AV	1.00	EA	1.15	88258		A	199.8
MPCC 1	34544 A	00M05	ACTUATOR 1433-613523 002N	AV	AV	1.00	EA	9.88	84124		K	.0
MPCC 1	34544 G	00M05	TDR ACTUATOR 1433-613523 002N	AV	AV	1.00	EA	1.15	80167		A	.0
MPCC 1	34548 A	00M05	OVERHAUL GEN P/N 625222 110M	BY	BY	1.00	EA	5.00	82044		F	.0
MPCC 1	34549 G	00M05	PRE QUALITY ANALYSIS 111N	BY	BY	1.00	EA	1.50	81332		K	.0
MPCC 1	34542 A	00M05	ACT 541216-1-1 007N	AV	AV	1.00	EA	4.36	80209		K	.0
MPCC 1	35005 A	00M05	SERVO 669777-361 302N	BY	BY	1.00	EA	8.02	83057		H	.0
MPCC 1	35005 G	00M05	QUAL ANAL 669777-361 007N	BY	BY	1.00	EA	3.22	80209		K	.0
MPCC 1	35009 A	00M05	MTR & DRV 684244-31 007N	BY	BY	1.00	EA	7.98	80209		K	.0
MPCC 1	35009 G	00M05	MTR & DRIVE 684244-31 303N	BY	BY	1.00	EA	2.00	83055		K	.0
MPCC 1	35018 G	00M05	DRUM & DRACKET 669779 212N	BY	BY	1.00	EA	1.00	82345		A	.0
MPCC 1	35019 A	00M05	SERVO 669777-541 302N	BY	BY	1.00	EA	8.02	83078		H	.0
MPCC 1	35019 G	00M05	TDR SERVO 669777-541 106N	BY	BY	1.00	EA	3.22	81140		K	.0
MPCC 1	35022 A	00M05	REP CABLE 168495-1 1F33	DY	DY	1.00	EA	4.50	88183		K	.0
MPCC 1	35022 G	00M05	CABLE P/N 168495-1 311M	DY	DY	1.00	EA	.50	83346		A	.0
MPCC 1	35048 G	00M05	SWITCH PS-1A 302N	DY	DY	1.00	EA	1.00	83050		A	.0

LABOR STANDARD MASTER FILE										04/30/89	A-E046B-MM3-MX-290	PAGE	18
RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCORR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS	
MTPCC	38085 A	00M05	PUM	P/N 4002	301N	BY	1.00	EA	N	3.92	83029	K	.0
MTPCC	38086 A	00M05	O/H ACTUATOR	16784-1A	303E	BY	1.00	EA	E	9.34	83062	K	.0
MTPCC	38087 A	00M05	ACTUATOR	16784-1A	106N	BY	1.00	EA	N	4.47	81140	K	.0
MTPCC	38088 A	00M05	ACTUATOR	16782-1C	106M	BY	1.00	EA	N	8.91	81140	K	.0
MTPCC	38089 G	00M05	TDR ACTUATOR	16782-1C	106N	BY	1.00	EA	N	4.38	8114C	K	.0
MTPCC	38358 A	00M05	PUMP	R09680	007N	BY	1.00	EA	N	3.92	80205	K	.0
MTPCC	38359 G	00M05	PUMP	R09680	007N	BY	1.00	EA	N	2.49	80209	K	.0
MTPCC	38803 A	00M10	O/H SWITCH	481695		DY	1.00	EA	N	1.52	87076	K	.0
MTPCC	38808 A	00M05	PUMP	043482-010-01	007N	BY	1.00	EA	N	3.47	80209	K	.0
MTPCC	38809 G	00M05	QDR PUMP		107N	BY	1.00	EA	N	1.50	81220	A	.0
MTPCC	37845 A	00M05	ACTUATOR	P/N 38140-7	405E	AY	1.00	EA	E	4.36	84147	K	.0
MTPCC	37715 A	00M05	CAPSTAN	99289-04	007N	BY	1.00	EA	N	4.12	80209	K	.0
MTPCC	37713 G	00M05	CAPSTAN TDR	99289-04	007N	BY	1.00	EA	N	2.50	80209	K	.0
MTPCC	37730 A	00M05	SERVO	616418-1-166	311E	BY	1.00	EA	E	8.02	83057	H	.0
MTPCC	37730 G	00M05	QUAL ANAVL		007N	BY	1.00	EA	N	3.40	80209	K	.0
MTPCC	37731 A	00M05	MTR GEN	985-0060-001	007N	BY	1.00	EA	N	4.35	80209	H	.0
MTPCC	38662 A	00M05	J-79 TORQUE MOTOR & RESISTOR			BY	1.00	EA	E	3.52	84124	K	.0
MTPCC	38663 A	00M05	J-79 TORQUE MOTOR & RESISTOR			BY	1.00	EA	E	3.52	84124	K	.0
MTPCC	38664 A	00M05	J-79 TORQUE MOTOR & RESISTOR			BY	1.00	EA	E	3.89	84124	K	.0
MTPCC	38665 A	00M05	J-79 TORQUE MOTOR & RESISTOR			BY	1.00	EA	E	3.52	84124	K	.0
MTPCC	38666 A	00M05	J-79 TORQUE MOTOR & RESISTOR			BY	1.00	EA	E	3.52	84124	K	.0
MTPCC	38667 A	00M05	J-79 TORQUE MOTOR & RESISTOR			BY	1.00	EA	E	3.52	84124	K	.0
MTPCC	38668 A	00M05	J-79 GENERATOR	868C691P1		BY	1.00	EA	N	1.40	82016	K	.0
MTPCC	38669 A	00M05	J-79 SWITCH	8740621P1		DY	1.00	EA	E	2.21	83309	K	.0
MTPCC	38667 G	00M05	J-79 SWITCH	8740621P1		DY	1.00	EA	N	1.00	83187	K	.0
MTPCC	38668 A	00M05	J-79 SWITCH	874C224P2		DY	1.00	EA	E	2.16	87211	K	.0

MTPC	RCC FAC	CTL NO	J NO	OPER NO	LABOR STANDARD MASTER FILE	SKILL CODE	OCOR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	PAGE	19 FLOW HRS
MTPCC 1	38698	G	00M05	J-79 SWITCH	874C224P2	DY	1.00	EA	N	1.00	83099		K	19	.0
MTPCC 1	38699	A	00M05	J-79 SWITCH	3110894P02	DY	1.00	EA	N	2.50	81276		K		.0
MTPCC 1	38699	G	00M05	J-79 SWITCH	3110894P02	DY	1.00	EA	N	1.00	83062		K		.0
MTPCC 1	38700	A	00M05	J-79 SWITCH	876C360P3	DY	1.00	EA	E	2.25	83309		K		.0
MTPCC 1	38700	G	00M05	J-79 SWITCH	876C360P3	DY	1.00	EA	N	1.00	83099		K		.0
MTPCC 1	38701	A	00M05	J-79 SWITCH	817D870P03	DY	1.00	EA	N	2.75	83027		K		.0
MTPCC 1	38701	G	00M05	J-79 SWITCH	817D870P03	DY	1.00	EA	N	1.00	82331		K		.0
MTPCC 1	38602	A	00M05	ACTUATOR	111N	BY	1.00	EA	N	8.46	81332		K		.0
MTPCC 1	38602	G	00M05	TDR ACT	844844-2-3	BY	1.00	EA	N	2.00	85010		A		.0
MTPCC 1	38614	A	00M05	ACT	601000-05	BY	1.00	EA	N	2.81	80211		K		.0
MTPCC 1	38614	G	00M05	QUAL ANAL ACT	206N	DY	1.00	EA	N	1.50	82154		A		.0
MTPCC 1	38700	A	00M05	SERVO	1990743-2A	BY	1.00	EA	N	18.38	81140		K		.0
MTPCC 1	38706	G	00M05	SERVO QUAL A	199074312A	BY	1.00	EA	N	1.50	80211		K		.0
MTPCC 1	38878	A	00M05	ACTUATOR	113538	AY	1.00	EA	N	3.23	80211		K		.0
MTPCC 1	42089	A	00M05	O/H FF TRANS	8TJ62GBA3	OT	1.00	EA	E	8.11	82233		K		.0
MTPCC 3	42089	A	00M10	TST FF TRSM	8TJ62GBA3	OT	1.00	EA	E	.89	82280		L		.0
MTPCC 1	42089	G	00M05	F/F TRANS	8TJ62GBA3	CT	1.00	EA	N	1.25	82044		K		.0
MTPCC 1	42928	A	00M05	CONTROL	P/N 1776286	BY	1.00	EA	E	4.53	84161		K		.0
MTPCC 1	42928	G	00M05	CONTROL	1776286	BY	1.00	EA	N	.76	82034		K		.0
MTPCC 1	44447	A	00M05	O/H FF TRNSM	9121-21A1	CT	1.00	EA	N	5.92	85045		K		.0
MTPCC 3	44447	A	00M10	TST FF TRNSM	9121-21A1	OT	1.00	EA	N	1.03	85045		K		.0
MTPCC 1	44447	G	00M05	F/F TRANS	9121-21A1	OT	1.00	EA	N	.30	82044		K		.0
MTPCC 1	45348	A	00M05	O/H FF TRANS	9117-16A1	CT	1.00	EA	E	9.12	82231		L		.0
MTPCC 3	45348	A	00M10	TST FF TRNSM	9117-16A1	CT	1.00	EA	N	.76	85045		K		.0
MTPCC 1	45348	G	00M05	F/F TRANS	9117-16A1	CT	1.00	EA	N	1.79	82044		K		.0
MTPCC 1	45382	A	00M05	O/H FF TRANS	8TJ62GBK3	CT	1.00	EA	E	7.48	82231		L		.0

LABOR STANDARD MASTER FILE										04/30/89	A-E046B-MM3-MX-290			PAGE 20
MTPC	RCC FAC	CTL J NO	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HRS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS	
	MTPCC 3	48362	A	00M10 TST FF TRNSM BTJ62GBK3	OT	1.00	EA	N	.97	85045		K	.0	
	MTPCC 1	48362	G	00M05 F/F TRANS BTJ62GBK3	201N	CT	EA	N	.75	82044		K	.0	
	MTPCC 3	48367	A	00M10 O/H FF TRNSM BTJ60GAS8	208N	OT	EA	E	4.30	82231		L	.0	
	MTPCC 3	48367	A	00M10 TST FF TRNSM BTJ60GAS8	OT	1.00	EA	N	.78	85045		K	.0	
	MTPCC 1	48367	G	00M05 F/F TRANS BTJ60GAS8	201N	CT	EA	N	.85	82044		K	.0	
	MTPCC 1	48368	A	00M05 O/H FF TRNSM BTJ60GAS4	OT	1.00	EA	N	4.20	85045		K	.0	
	MTPCC 3	48368	A	00M10 TST FF TRNSM BTJ60GAS4	OT	1.00	EA	N	.73	85045		K	.0	
	MTPCC 1	48369	G	00M05 TRANSMITTER BTJ50GAS4	304N	CT	EA	N	.50	83099		K	.0	
	MTPCC 3	48371	A	00M10 O/H FF TRNSM BTJ50GAS4	208N	OT	EA	E	6.07	82219		L	.0	
	MTPCC 3	48371	A	00M10 TST FF TRNSM BTJ50GAS4	OT	1.00	EA	N	.97	85045		K	.0	
	MTPCC 1	48371	G	00M05 F/F TRANS BTJ62GBK3	201N	CT	EA	N	1.34	82044		K	.0	
	MTPCC 3	48451	A	00M10 O/H FF TRNSM BTJ50GBM5	208N	OT	EA	E	4.30	82231		L	.0	
	MTPCC 3	48451	A	00M10 TST FF TRNSM BTJ50GBM5	OT	1.00	EA	E	.78	82231		L	.0	
	MTPCC 1	48451	G	00M05 F/F TRANS BTJ50GBM5	201N	CT	EA	N	.85	82044		K	.0	
	MTPCC 1	48561	A	00M05 O/H FF TRNS 9115-16C4A	208N	OT	EA	E	6.07	82231		L	.0	
	MTPCC 3	48561	A	00M10 TST FF TRNSM 9115-16C4A	OT	1.00	EA	N	1.03	85045		K	.0	
	MTPCC 1	48561	G	00M05 F/F TRANS 9115-16C4A	201N	CT	EA	N	1.20	82044		K	.0	
	MTPCC 1	48562	A	00M05 O/H FF TRAN 9115-16D1	208N	OT	EA	E	7.08	82219		L	.0	
	MTPCC 3	48562	A	00M10 TST FF TRNSM 9115-16D1	OT	1.00	EA	N	1.03	85045		K	.0	
	MTPCC 1	48562	G	00M05 F/F TRANS 9115-16D1	201N	CT	EA	N	1.20	82044		K	.0	
	MTPCC 1	48563	A	00M05 O/H FF TRAN 9115-16C1A	208N	OT	EA	E	6.07	82231		L	.0	
	MTPCC 3	48563	A	00M10 TST FF TRNSM 9115-16C1A	OT	1.00	EA	N	1.03	85045		K	.0	
	MTPCC 1	48563	G	00M05 F/F TRANS 9115-16C1A	201N	CT	EA	N	1.20	82044		K	.0	
	MTPCC 1	48564	A	00M05 O/H FF TRAN 9115-16B1A	208N	OT	EA	E	6.07	82231		L	.0	
	MTPCC 3	48564	A	00M10 TST FF TRNSM 9115-16B1A	OT	1.00	EA	N	1.03	85045		K	.0	
	MTPCC 1	48564	G	00M05 F/F TRANS 9115-16B1A	201N	CT	EA	N	1.20	82044		K	.0	

LABOR STANDARD MASTER FILE										04/30/89			A-E0468-MM3-MX-290			PAGE 21	
RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	FACTOR	OCUR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS				
MTPCC 1	48565 A	00M05	O/H FF TRNSM 9115-16A1A	OT	1.00	EA	EA	N	5.92	85045		K	.0				
MTPCC 1	48565 A	00M10	TST FF TRNSM 9115-16A1A	CT	1.00	EA	EA	N	1.03	85045		K	.0				
MTPCC 1	48565 G	00M05	F/F TRANS 9115-16A1A	201M	OT	1.00	EA	N	1.06	82044		K	.0				
MTPCC 1	48185 G	00M05	ACT QUAL ANAL 1008J50	007M	OT	1.00	EA	N	2.00	80211		K	.0				
MTPCC 1	49226 A	00M05	REP ACTUATOR	112N	AY	1.00	EA	N	4.08	81339		K	.0				
MTPCC 1	49238 A	00M05	ACTUATOR P/N 541214-2	304N	AY	1.00	EA	N	4.22	83074		K	.0				
MTPCC 1	49280 A	00M05	ACTUATOR P/N 540908-2-2	304N	AY	1.00	EA	N	4.22	83078		K	.0				
MTPCC 1	49419 A	00M05	ACTUATOR P/N 499-00	208N	AY	1.00	EA	N	3.49	82240		A	.0				
MTPCC 1	49419 G	00M05	ACTUATOR	499-00	AY	1.00	EA	N	1.00	83263		A	.0				
MTPCC 1	49426 A	00M05	O/H ACTUATOR	499-00-1	106N	AY	1.00	EA	2.59	81140		K	.0				
MTPCC 1	49426 G	00M05	TDR ACT	499-00-1	106N	AY	1.00	EA	1.50	81140		K	.0				
MTPCC 1	49426 A	00M05	ACTUATOR	38140-4	M048	AY	1.00	EA	4.34	80046		K	.0				
MTPCC 1	49530 A	00M05	O/H FF TRNSM 9115-16C4A	OT	1.00	EA	EA	N	5.92	85045		K	.0				
MTPCC 3	49530 A	00M10	TST FF TRNSM 9115-16C4A	CT	1.00	EA	EA	N	1.03	85045		K	.0				
MTPCC 1	49531 A	00M05	O/H FF TRNSM 9115-16D1	CT	1.00	EA	EA	N	5.92	85045		K	.0				
MTPCC 3	49531 A	00M10	TST FF TRNSM 9115-16D1	CT	1.00	EA	EA	N	1.03	85045		K	.0				
MTPCC 1	49532 A	00M05	O/H FF TRNSM 9115-16C1A	CT	1.00	EA	EA	N	5.92	85045		K	.0				
MTPCC 3	49532 A	00M10	TST FF TRNSM 9115-16C1A	CT	1.00	EA	EA	N	1.03	85045		K	.0				
MTPCC 1	49533 A	00M05	O/H FF TRNSM 9115-16A1A	CT	1.00	EA	EA	N	5.92	85045		K	.0				
MTPCC 3	49533 A	00M10	TST FF TRNSM 9115-16A1A	CT	1.00	EA	EA	N	1.03	85045		K	.0				
MTPCC 1	49534 A	00M05	O/H FF TRNSM 9115-16B1A	CT	1.00	EA	EA	N	5.92	85045		K	.0				
MTPCC 3	49534 A	00M10	TST FF TRNSM 9115-16B1A	CT	1.00	EA	EA	N	1.03	85045		K	.0				
MTPCC 1	49542 A	00M05	CABLE	749022	002M	DY	EA	N	8.00	80167		A	.0				
MTPCC 1	49542 G	00M05	CABLE 749022	TF30	DY	EA	EA	N	1.00	87042		K	.0				
MTPCC 1	49550 A	00M05	ACTUATOR	541218-3-1	304N	AY	EA	N	4.22	83069		K	.0				
MTPCC 1	49555 A	00M05	ACTUATOR	544388-6-1	301M	AY	EA	N	9.02	83034		K	.0				

MTPC	RCC FAC	CTL J NO D	OPER NO	LABOR STANDARD MASTER FILE	SKILL CODE	OCUR FACTOR	UNIT COUNT	UNIT TYPE	STD HOURS	LAST REVIEW	A/R CD	FLOW HRS	PAGE
				04/30/89 A-E046B-WMS-MX-290								22	
				ACT-GRP 8 541076+4+2 004N DY	DY	1.00	EA N	EA N	4.97	80167	K	.0	
				O/H FF TRAN 180-008-003 208N CT	CT	1.00	EA E	EA E	6.07	32219	L	.0	
				TRANSMITTER 180-008-003 205N CT	CT	1.00	EA N	EA N	.78	89048	K	.0	
				MOTOR DRIVE 888979-161 005N BY	BY	1.00	EA N	EA N	5.98	80274	A	.0	
				OVERHAUL 888979-481 103N BY	BY	1.00	EA N	EA N	5.98	81112	A	.0	
				ACTUATOR 848808-4-2 304N AY	AY	1.00	EA N	EA N	4.22	83068	K	.0	
				SENSOR 848842-2-1 112N BY	BY	1.00	EA N	EA N	5.80	82030	A	.0	
				ACTUATOR P/MS40284-3 101N BY	BY	1.00	EA N	EA N	6.37	81038	K	.0	
				HARNES CDS 697188 111N DY	DY	1.00	EA N	EA N	.01	81327	K	.0	
				ACTUATOR 488-00-3 110N AY	AY	1.00	EA N	EA N	3.50	81276	A	.0	
				ACTUATOR 488-00-3 212N AY	AY	1.00	EA N	EA N	1.00	82362	A	.0	
				ACTUATOR 720434-2 & 3 204N AY	AY	1.00	EA N	EA N	3.50	82118	A	.0	
				NAV LIGHT 40-0192-3 204N BY	BY	1.00	EA N	EA N	8.00	82112	K	.0	
				ACTUATOR 540806-3-1 111N AY	AY	1.00	EA N	EA N	2.80	81311	A	.0	
				ACTUATOR 32-0260-4 111N AY	AY	1.00	EA N	EA N	3.50	81350	A	.0	
				REPAIR HARNES 714973C DY	DY	1.00	EA N	EA N	.30	84231	A	.0	
				REPLACE HARNES SWITCH DY	DY	1.00	EA N	EA N	3.00	84361	A	.0	
				TEMP SELECTOR 787040-1 307N AY	AY	1.00	EA N	EA N	4.00	83208	K	.0	
				HARNES SUPPORT FOR E3A CSD DY	DY	1.00	EA N	EA N	4.60	88320	K	.0	
				HARNES SUPPORT FOR E3A CSD DY	DY	1.00	EA N	EA N	4.60	88320	K	.0	
				HARNES SLPPT OF CSD MOD DY	DY	1.00	EA N	EA N	4.60	88288	K	.0	
				O/H ACT 1-33-623304 DY	DY	1.00	EA N	EA N	5.10	84364	A	.0	
				REPLACE HARNES SWITCH DY	DY	1.00	EA N	EA N	3.00	84361	K	.0	
				REPLACE HARNES SWITCH DY	DY	1.00	EA N	EA N	3.00	84361	K	.0	
				REPAIR SOLENOID 2633047 DY	DY	1.00	EA N	EA N	1.00	87055	K	.0	

LABOR STANDARD MASTER FILE

MTPC	RCC FAC	CTL J NO	OPER NO	DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
	50127	A	00M05	REPAIR SOLENOID 2633047	DY	1.00	EA	N	1.00	87055		K	.0
	50128	A	00M05	REPAIR SOLENOID 2633047	DY	1.00	EA	N	1.00	87055		K	.0
	50183	A	00M05	REP TF41 A402 HAR 8899482	DY	1.00	EA	N	8.33	87187		K	.0
	50184	A	00M05	REPAIR SOLENOID 2633047	DY	1.00	EA	N	1.00	87055		K	.0
	50192	A	00M05	ACT TRIM MTR 1R4495	DY	1.00	EA	N	2.66	85290		K	.0
	50193	A	00M10	HARNES FUEL CTL 3 EA.	DY	1.00	EA	N	2.02	85296		A	.0
	50194	A	00M05	OK/H FF TRANS BTJ80GASS	OT	1.00	EA	E	4.30	89058		K	.0
	50195	A	00M10	TST FF TRNSM BTJ80GASS	CT	1.00	EA	N	.76	89058		K	.0
	50187	A	00M05	REP HARNES 7149730	DY	1.00	EA	N	.45	87133		K	.0
	50282	A	00M05	CONNECTOR MESTRY SW. 820480	DY	1.00	EA	N	1.34	85357		A	.0
	50247	A	00M05	O/H KC138E CSD HARNES	DY	1.00	EA	N	2.00	86279		K	.0
	50277	A	00M05	REPLACE HARNES SWITCH	DY	1.00	EA	N	3.00	87023		K	.0
	50324	A	00M05	REPAIR SOLENOID 2633047	DY	1.00	EA	N	1.00	87055		A	.0
	50325	A	00M05	REPLACE HARNES SWITCH	DY	1.00	EA	N	3.00	87224		A	.0
	50383	A	00M05	OH PLA HOUSING & SWITCH	DY	1.00	EA	N	2.00	87323		A	.0
	50383	G	00M05	QDR PLA SW & HSG	DY	1.00	EA	N	.50	85231		A	.0
	50384	A	00M05	OH PLA HOUSING & SWITCH	DY	1.00	EA	N	2.00	87323		A	.0
	50387	A	00M05	O/H IGNITION LEAD	DY	1.00	EA	N	1.75	87343		A	.0
	50388	A	00M05	TF41 SOLENO P/N 184327	BY	1.00	EA	N	1.00	88064		A	.0
	50381	A	00M05	TF41 SOLENO P/N 184327	BY	1.00	EA	N	1.00	88064		A	.0
	50380	A	00M05	TF41 SOLENOID VL 184327	BY	1.00	EA	N	1.00	88112		A	.0
	50381	A	00M05	TF41 SOLENOID VL 184327	BY	1.00	EA	N	1.00	88112		A	.0
	50385	A	00M05	TF41 SOLENOID VL 184327	BY	1.00	EA	N	1.00	88112		K	.0
	50386	A	00M05	TF41 SOLENOID VL 184327	BY	1.00	EA	N	1.00	88112		K	.0
	50385	A	00M05	LEAD P/N 10-380483-1	DY	1.00	EA	N	2.68	88202		A	.0
	61105	A	00M05	O/H FF TRNSM BTJ86GHM2	CT	1.00	EA	N	5.92	85045		K	.0

LABOR STANDARD MASTER FILE										04/30/89	A-E0465-MM3-MX-290			PAGE 24
RTPC	RCG FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	SKILL OCCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS	
MTPCC 3	81108 A	00M10	00M10	TST FF TRNSM BTJ620CA3	OT	1.00	EA	N	.76	85045		K	.0	
MTPCC 1	81108 G	00M05	00M05	F/F TRANS BTJ620CA3	CT	1.00	EA	N	1.20	82044		K	.0	
MTPCC 1	81111 A	00M05	00M05	OH TF41 P M GENER 8866889	BY	1.00	EA	N	6.00	83027		K	.0	
MTPCC 1	81112 A	00M05	00M05	OH TF41 P M GENER 8866889	BY	1.00	EA	N	6.00	80211		K	.0	
MTPCC 1	81112 G	00M05	00M05	GENERATOR	BY	1.00	EA	N	2.11	81093		A	.0	
MTPCC 1	81132 A	00M05	00M05	ACTUATOR	AV	1.00	EA	N	4.22	83074		K	.0	
MTPCC 1	81132 G	00M05	00M05	ACTUATOR	AV	1.00	EA	N	1.50	83277		A	.0	
MTPCC 1	81159 A	00M05	00M05	O/H SENSOR 548702-2-1	BY	1.00	EA	N	4.76	82044		K	.0	
MTPCC 1	81179 A	00M05	00M05	ACTUATOR P/N 307200	AV	1.00	EA	N	4.84	83078		K	.0	
MTPCC 1	81202 A	00M05	00M05	MOTOR P/N 658650-151	BY	1.00	EA	N	5.98	81332		K	.0	
MTPCC 1	81203 A	00M05	00M05	ACT	BY	1.00	EA	N	8.92	80211		K	.0	
MTPCC 1	81204 A	00M05	00M05	TF41 SOLEN VALVE P/N 184327	BY	1.00	EA	N	1.00	83022		K	.0	
MTPCC 1	81205 A	00M05	00M05	TF41 SOLEN VALVE P/N 184327	BY	1.00	EA	N	1.00	83022		K	.0	
MTPCC 1	81207 A	00M05	00M05	O/H FF TRAM BTJ620CA3	CT	1.00	EA	E	6.07	82219		L	.0	
MTPCC 3	81207 A	00M10	00M10	TST FF TRNSM BTJ620CA3	OT	1.00	EA	N	.37	85045		K	.0	
MTPCC 1	81207 G	00M05	00M05	F/F TRANS BTJ620CA3	CT	1.00	EA	N	1.25	82044		K	.0	
MTPCC 1	81215 A	00M05	00M05	OH TF41 P M GENER 8866889	BY	1.00	EA	N	6.00	83027		K	.0	
MTPCC 1	81240 A	00M05	00M05	REP ACTUATOR	BY	1.00	EA	N	8.48	81332		K	.0	
MTPCC 1	81264 A	00M05	00M05	O/H FF TRNSM BTJ620CA3	OT	1.00	EA	N	5.92	85045		K	.0	
MTPCC 3	81264 A	00M10	00M10	TST FF TRNSM BTJ620CA3	CT	1.00	EA	N	.76	85045		K	.0	
MTPCC 1	81264 G	00M05	00M05	FLOW TRANSMT BTJ620CA3	CT	1.00	EA	N	1.50	83118		A	.0	
MTPCC 1	81268 A	00M05	00M05	TACH-GENERATOR 8862480	BY	1.00	EA	N	1.44	83022		A	.0	
MTPCC 1	81035 A	00M05	00M05	O/H IGNITION LEAD	DY	1.00	EA	N	1.75	87322		A	.0	
MTPCC 1	81100 A	00M05	00M05	C130 ACTUATOR P/N 180201	AV	1.00	EA	N	2.79	83078		K	.0	
MTPCC 1	81102 A	00M05	00M05	C130 COMPRESSOR P/N 809880	BY	1.00	EA	N	3.82	80209		K	.0	
MTPCC 3	81107 A	00M05	00M05	O/H FF TRNSM BTJ620CA3	CT	1.00	EA	N	4.20	85045		K	.0	

MTPC	RCC FAC	CTL J NO D	OPER NO	LABOR STANDARD MASTER FILE	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	A/R CD	PAGE	25	FLOW HRS
MTPCC	1	94041	A	00M05	ACT GRP 2	35940-3	009N	AY	1.00	EA	N	1.50	80281	A	.0
MTPCC	1	94041	A	00M05	ACT GRP 2	152772-1	005N	AY	1.00	EA	N	2.79	80167	K	.0
MTPCC	1	94041	A	00M10	124848		202E	AY	1.00	EA	N	2.00	82048	K	.0
MTPCC	1	94041	G	00M05	MDR		202N	AY	1.00	EA	N	1.98	82048	K	.0
MTPCC	1	94043	A	00M05	ACTUATOR	152621	305N	AY	1.00	EA	N	3.23	80167	K	.0
MTPCC	1	94043	A	00M10	123885		202N	AY	1.00	EA	N	2.32	82048	K	.0
MTPCC	1	94043	A	00M20	120288 VALVE BODY		201N	AY	1.00	EA	N	.28	82020	K	.0
MTPCC	1	94043	G	00M05	MDR		202N	AY	1.00	EA	N	1.96	82048	K	.0
MTPCC	1	94202	A	00M05	481310		202N	AY	1.00	EA	N	2.66	82048	K	.0
MTPCC	1	94202	A	00M10	BUTTERFLY TF-33	480165		AY	1.00	EA	N	.20	86254	K	.0
MTPCC	1	94227	A	00M05	466475		202N	AY	1.00	EA	N	4.54	81140	K	.0
MTPCC	1	94227	G	00M05	ANTI ICE VALVE TDR		202N	AY	1.00	EA	N	3.22	82058	K	.0
MTPCC	1	95001	A	00M05	ACT	31970-8	007N	AY	1.00	EA	N	3.20	88153	K	.0
MTPCC	1	95011	A	00M05	ACT	657213	007N	AY	1.00	EA	N	2.99	80211	K	.0
MTPCC	1	95015	A	00M05	ACT	30678-17	007N	AY	1.00	EA	N	5.09	82133	K	.0
MTPCC	1	95028	A	00M05	ACTUATOR	P/N 6719	304N	AY	1.00	EA	N	3.45	80211	K	.0
MTPCC	1	95036	A	00M05	ACT	35-277A	008N	AY	1.00	EA	N	3.77	83069	K	.0
MTPCC	1	95036	G	00M05	TDR-QCI ANALYSIS			AY	1.00	EA	N	3.58	80219	K	.0
MTPCC	1	95036	A	00M05	ACTUATOR	GYLC 9103	304N	AY	1.00	EA	N	3.5E	80208	J	.0
MTPCC	1	95042	A	00M05	ACT	152510	008N	AY	1.00	EA	N	4.03	83069	K	.0
MTPCC	1	95044	A	00M05	ACT	381585-5	008N	AY	1.00	EA	N	4.00	80219	K	.0
MTPCC	1	95052	A	00M05	ELECTRO MECH ACTUATOR		303N	AY	1.00	EA	N	4.34	80219	K	.0
MTPCC	1	95055	A	00M05	ACTUATOR	4369-1	304N	AY	1.00	EA	N	2.79	83078	K	.0
MTPCC	1	95056	A	00M05	ACTUATOR	541218-3-1	304N	AY	1.00	EA	N	3.77	83069	K	.0
MTPCC	1	95056	A	00M05	ACTUATOR			AY	1.00	EA	N	5.18	83069	K	.0

LABOR STANDARD MASTER FILE										04/30/89			A-E0468-MM3-MX-290			PAGE 26	
RCC FAC	CTL J	OPER	OPERATION DESCRIPTION	SKILL CODE	SKILL	OCUR	UNIT	TYPE	STD	LAST	OPER	A/R	FLOW				
NO D	NO	NO			FACTOR	COUNT	COUNT	STD	HOURS	REVIEW	IND	CD	HRS				
MTPOC 1	95088 A	00M05	QCI-TDR ACT 541218-3-1	111N	AY	1.00	EA	N	2.23	81332	K	.	.0				
MTPOC 1	95088 A	00M05	ACT GRP 1 1433-823304	098N	AY	1.00	EA	N	5.35	80167	K	.	.0				
MTPOC 1	95088 A	00M05	ACTUATOR 544322-5-1	301N	AY	1.00	EA	N	9.02	83034	K	.	.0				
MTPOC 1	95088 A	00M05	ACT GRP 2 549188-4-2	066N	AY	1.00	EA	N	2.79	80175	K	.	.0				
MTPOC 1	95088 C	00M05	ACTUATOR PM 540108-4-2	204N	AY	1.00	EA	N	1.85	82105	K	.	.0				
MTPOC 1	95078 A	00M05	ACT 54106-4-2	008N	AY	1.00	EA	N	4.11	80219	K	.	.0				
MTPOC 1	95078 C	00M05	VALVE P/N 321888-4-1	110N	AY	1.00	EA	N	1.50	81290	K	.	.0				
MTPOC 1	95088 A	00M05	ACT 549989-2-1	008N	AY	1.00	EA	N	4.00	80219	K	.	.0				
MTPOC 1	95088 C	00M05	ACTUATOR 544080-2-1	402N	AY	1.00	EA	N	1.50	84049	A	.	.0				
MTPOC 1	95087 A	00M05	ACTUATOR 544039-12-1	301N	AY	1.00	EA	N	9.02	83034	K	.	.0				
MTPOC 1	95088 A	00M05	ACTUATOR 544322-4-1	301N	AY	1.00	EA	N	9.02	83034	K	.	.0				
MTPOC 1	95088 A	00M05	ACTUATOR 544030-18-1	301N	AY	1.00	EA	N	9.02	83034	K	.	.0				
MTPOC 1	95083 A	00M05	ACT 34988-24	008N	AY	1.00	EA	N	3.88	80219	K	.	.0				
MTPOC 1	95097 A	00M05	ACTUATOR 541078-3-1	304N	AY	1.00	EA	N	4.22	83069	K	.	.0				
MTPOC 1	95101 A	00M05	ACTUATOR 544014-9-2	301N	AY	1.00	EA	N	9.31	83027	K	.	.0				
MTPOC 1	95103 A	00M05	ACT 2295A0	008N	AY	1.00	EA	N	4.67	80219	K	.	.0				
MTPOC 1	95104 A	00M05	ACTUATOR P/N C10046		AY	1.00	EA	E	5.23	84119	K	.	.0				
MTPOC 1	95108 A	00M05	ACT 541216-1-1	008N	AY	1.00	EA	N	4.48	80219	K	.	.0				
MTPOC 1	95108 C	00M05	ACTUATOR 541216-1-1	308N	AY	1.00	EA	N	1.50	83244	A	.	.0				
MTPOC 1	95109 A	00M05	ACT 541078-4-2	008N	AY	1.00	EA	N	6.78	80219	K	.	.0				
MTPOC 1	95109 C	00M05	ACTUATOR 541078-4-2	403N	AY	1.00	EA	N	1.50	84080	A	.	.0				
MTPOC 1	95110 A	00M05	ACTUATOR 540906-2-2	302N	AY	1.00	EA	N	4.22	83050	K	.	.0				
MTPOC 1	95111 A	00M05	ACTUATOR 544014-8-1	301N	AY	1.00	EA	N	9.31	83034	K	.	.0				
MTPOC 1	95131 A	00M05	ACTUATOR 541214-1-2	364N	AY	1.00	EA	N	4.22	83069	K	.	.0				
MTPOC 1	95131 C	00M05	QCI-TDR ACT 541214+1+2	064N	AY	1.00	EA	N	2.00	80167	A	.	.0				
MTPOC 1	95133 A	00M05	ACTUATOR 544014-9-1	301N	AY	1.00	EA	N	9.31	83034	K	.	.0				

LABOR STANDARD MASTER FILE										04/30/89		A-E046B-MM3-MX-290		PAGE 27	
MTPC	RCC FAC	CTL J	OPER	DESCRIPTION	SKILL	OCUR	UNIT	TYPE	STD	LAST	OPER	A/R	FLOW		
	NO	NO	NO		CODE	FACTOR	COUNT		NO	REV	IND	CD	HRS		
MTPCC 1	95144 A	00M05	ACTUATOR	GYLC 9102	304N	AV	1.00	EA	N	4.03	83069	K	.0		
MTPCC 1	95148 A	00M05	ACTUATOR	P/N 2295AD	804N	AV	1.00	EA	N	4.70	80219	K	.0		
MTPCC 1	95150 A	00M05	ACTUATOR	P/N 4369-1	302N	AV	1.00	EA	N	3.77	83057	K	.0		
MTPCC 1	95151 A	00M05	ACTUATOR	P/N 4398-1	304N	AV	1.00	EA	N	3.77	83069	K	.0		
MTPCC 1	95150 A	00M05	ACT	31974-4	008N	AV	1.00	EA	N	6.40	80219	K	.0		
MTPCC 1	95158 A	00M05	ACTUATOR	31974-4	008N	AV	1.00	EA	N	4.84	83078	K	.0		
MTPCC 1	95201 A	00M05	ACTUATOR	701300	304N	AV	1.00	EA	N	4.84	83078	K	.0		
MTPCC 1	95234 A	00M05	ACT	31970-6	008N	AV	1.00	EA	N	2.99	80219	K	.0		
MTPCC 1	95334 G	00M05	QUAL ANAL	ACTUATOR	111N	AV	1.00	EA	N	2.00	81332	K	.0		
MTPCC 1	95150 A	00M05	ACT	841368-1	008N	AV	1.00	EA	N	4.15	80219	K	.0		
MTPCC 1	95293 G	00M05	QUAL ANAL	841368-1-1	011N	AV	1.00	EA	N	2.00	80339	A	.0		
MTPCC 1	95304 A	00M05	ACTUATOR	540908-4-2	304N	AV	1.00	EA	N	4.22	83069	K	.0		
MTPCC 1	95304 G	00M05	ACTUATOR	540908-4-2	207N	AV	1.00	EA	N	1.00	82208	A	.0		
MTPCC 1	95331 A	00M05	ACT GRP 2	541594-1-1	006N	AV	1.00	EA	N	2.79	80175	K	.0		
MTPCC 1	95332 A	00M05	ACT GRP 2	541594-1-1	006N	AV	1.00	EA	N	2.79	80175	K	.0		
MTPCC 1	95332 G	00M05	QCI-TDR ACT	541594-1-1	106N	AV	1.00	EA	N	1.50	81255	G	.0		
MTPCC 1	95333 A	00M05	ACT GRP 2	541594-1-1	006N	AV	1.00	EA	N	2.79	80208	K	.0		
MTPCC 1	95348 A	00M05	ACT	541368-2-1M	008N	AV	1.00	EA	N	4.38	80219	K	.0		
MTPCC 1	95348 G	00M05	ACTUATOR QDR/TDR		002N	AV	1.00	EA	N	2.50	80167	A	.0		
MTPCC 1	95457 A	00M05	ACT GRP 6	35-12126	008N	AV	1.00	EA	N	4.86	80167	K	.0		
MTPCC 1	95524 A	00M20	D/H ACT	317852	303E	AV	1.00	EA	N	3.23	82044	K	.0		
MTPCC 1	95524 A	00M10	119185		312N	AV	1.00	EA	N	2.07	85066	G	.0		
MTPCC 1	95524 A	00M20	120289 BODY	J67 VALVE	201E	AV	1.00	EA	N	.14	82023	K	.0		
MTPCC 1	95524 G	00M05	MOR		105N	AV	1.00	EA	N	1.94	81157	K	.0		
MTPCC 1	95526 A	00M05	CONNECTOR	P/N 520480		AV	1.00	EA	N	1.34	86150	A	.0		
MTPCC 1	97259 A	00M05	ACTUATOR	544020-14-1	301N	AV	1.00	EA	N	9.00	83034	K	.0		

MTPC LABOUR STANDARD MASTER FILE 04/30/89 A-E0468-MM3-MX-290 PAGE 28
 RCC FAC CTL J OPER NO D NO OPER NO D NO
 MTPCC 1 98217 A 00M06 HARNESS ASSY CSD 111N AY 1.00 EA N .89 81332 K .0
 MTPCC 1 98217 A 00M06 TF41 SOLEN VALVE P/N 184327 AY 1.00 EA N 1.00 80219 K .0
 MTPCC 1 98223 A 00M05 TF41 SOLEN VALVE P/N 184327 AY 1.00 EA N 1.00 80219 K .0
 MTPCC 1 98422 A 00M05 TF41 SOLEN VALVE P/N 184327 AY 1.00 EA N 1.00 83013 K .0
 MTPCC 1 98423 A 00M05 TF41 SOLEN VALVE P/N 184327 AY 1.00 EA N 1.00 83013 K .0

LABOR STANDARD MASTER FILE

E O 4 6 8 B S T A N D A R D H O U R . T O T A L S B Y R C C & T Y P E S T A N D A R D

RCC TYPE STD NBR STDS NBR STD HRS

MTPCC E 33 169.34

N 674 1,481.74

X

707 1,651.08

MTPC	RCC FAC	CTL J NO D	OPER NO	LABOR STANDARD MASTER FILE	OPERATION DESCRIPTION	SKILL CODE	FACION	OCCUR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	PAGE	FLOW HRS
MTPCC 1	00210 B	45371	CAPSTAN	99289-04	210M	BY	1.00	EA	N	EA	N	4.12	82287	K	1	.0
MTPCC 1	00210 B	45373	CAPSTAN	99289-04	210M	BY	1.00	EA	N	EA	N	4.12	82287	K		.0
MTPCC 1	00210 B	45375	CAPSTAN	99289-04	210M	BY	1.00	EA	N	EA	N	4.12	82287	K		.0
MTPCC 1	00210 B	80026	AILERON CAPSTAN	99289-04		BY	1.00	EA	N	EA	N	4.12	88251	K		.0
MTPCC 1	00210 B	80027	RUDDER CAPSTAN	99289-04		BY	1.00	EA	N	EA	N	4.12	88251	K		.0
MTPCC 1	00210 B	80028	ELEVATOR CAPSTAN	99289-04		BY	1.00	EA	N	EA	N	4.12	88251	K		.0
MTPCC 1	00210 B	80166	CK-TST-REP WA PU	6156	202M	BY	1.00	EA	N	EA	N	4.90	82044	K		.0
MTPCC 4	00210 B	80175	BATT MA-4	MS24497-1	202M	BY	1.00	EA	N	EA	N	5.40	82051	K		.0
MTPCC 4	00210 B	80176	BATT A/C	MS24497-5	202M	BY	1.00	EA	N	EA	N	4.00	82051	K		.0
MTPCC 4	00210 B	80177	BATT INS	7888701-11	202M	BY	1.00	EA	N	EA	N	4.00	82051	K		.0
MTPCC 1	00210 B	80180	BATTERY		112M	BY	1.00	EA	N	EA	N	.50	81353	K		.0
MTPCC 1	00210 B	80183	BATTERY		112M	BY	1.00	EA	N	EA	N	.50	81353	K		.0
MTPCC 1	00220 B	80166	CK-TST-REP WA PU		202M	BY	1.00	EA	N	EA	N	4.90	82044	K		.0
MTPCC 4	00220 B	80175	BATT MA4		202M	BY	1.00	EA	N	EA	N	5.40	82051	K		.0
MTPCC 4	00220 B	80176	BATT A/C	MS24497-5	202M	BY	1.00	EA	N	EA	N	4.00	82051	K		.0
MTPCC 1	00230 B	80166	CK-TEST WA PU	6156	001M	BY	1.00	EA	N	EA	N	4.90	80167	K		.0
MTPCC 4	00230 B	80175	BATT MA4	MS24497-1	001M	BY	1.00	EA	N	EA	N	5.40	80167	K		.0
MTPCC 4	00230 B	80176	BATT A/C	MS24497-5	001M	BY	1.00	EA	N	EA	N	4.00	80167	K		.0
MTPCC 4	00230 B	80177	BATT INS	7888701-11	001M	BY	1.00	EA	N	EA	N	4.00	80167	K		.0
MTPCC 4	00260 B	80175	BATT MA4	MS24497-1	001M	BY	1.00	EA	N	EA	N	5.40	80167	K		.0
MTPCC 4	00260 B	80176	BATT A/C	MS24497-5	001M	BY	1.00	EA	N	EA	N	4.00	80167	K		.0
MTPCC 4	00260 B	80177	BATT	7888701-11	001M	BY	1.00	EA	N	EA	N	4.00	80167	K		.0
MTPCC 1	00416 B	80119	852 CONV W/S WIPER	D18716-1		BY	1.00	EA	N	EA	N	.01	81137	K		.0
MTPCC 1	00418 B	80120	852 CONV W/S WIPER	D18716-1		BY	1.00	EA	N	EA	N	.01	81137	K		.0
MTPCC 1	00420 B	80000	852 SCRAM BATTERY	551-13610		BY	1.00	EA	N	EA	N	10.10	81137	K		.0
MTPCC 1	23005 G	00M05	TDR ENG ACCYS		202M	DY	1.00	EA	N	EA	N	.85	82044	K		.0

NOTE: G. RETEST FROM FIELD.

TDR TEAR-DOWN REP. → A + G

A. Serviceable ASSET

71374
730
802

LABOR STANDARD MASTER FILE

MTPCC

RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCOR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
MTPCC 1	23009 G	00M05	TDR ENG ACCYS	311N DY	1.00	EA	N	.86	82044		K	.0
MTPCC 1	23030 G	00M10	TDR ENG ACCYS	102N DY	1.00	EA	N	.86	81015		K	.0
MTPCC 1	23100 A	00M52	LEAD-LH 10-380111-1	111N DY	1.00	EA	N	3.87	81329		K	.0
MTPCC 1	23100 A	00M53	LEAD-RH 10-380110-1	111N DY	1.00	EA	N	3.87	81329		K	.0
MTPCC 1	23100 A	00M55	LEAD 2EA. 10-380463-1	111N DY	1.00	EA	N	5.36	81329		K	.0
MTPCC 1	23100 A	00M56	CABLE 10-382828-1	804N DY	1.00	EA	N	1.00	84105		K	.0
MTPCC 1	23100 A	00M70	CABLE MAD14475	DY	1.00	EA	N	.74	84140		K	.0
MTPCC 1	23100 B	00M60	CABLE 10-352825-1	804N DY	1.00	EA	N	.50	84105		K	.0
MTPCC 1	23100 B	00M69	MISC CABLE	309N DY	1.00	EA	N	2.50	82051		K	.0
MTPCC 1	23100 G	00M05	TDR ENG ACCYS	102N DY	1.00	EA	N	.86	81015		K	.0
MTPCC 1	23103 A	00M53	OH/REP IGNITION TRANSFORMER	DY	1.00	EA	N	.40	84361		K	.0
MTPCC 1	23103 A	00M54	CABLE 42189	DY	1.00	EA	N	5.10	84361		K	.0
MTPCC 1	23103 A	00M55	CABLE 42190	DY	1.00	EA	N	5.00	86303		K	.0
MTPCC 1	23103 A	00M56	CABLE 42191	DY	1.00	EA	N	4.30	84361		K	.0
MTPCC 1	23103 A	00M57	CABLE 42347	DY	1.00	EA	N	4.20	84361		K	.0
MTPCC 1	23103 B	00M69	MISC CABLE	DY	1.00	EA	N	2.50	85297		K	.0
MTPCC 1	23107 A	00M53	OH/REP IGNITION TRANSFORMER	DY	1.00	EA	N	.40	84361		K	.0
MTPCC 1	23107 A	00M54	CABLE 42189	DY	1.00	EA	N	5.10	84361		K	.0
MTPCC 1	23107 A	00M55	CABLE 42190	DY	1.00	EA	N	5.00	86303		K	.0
MTPCC 1	23107 A	00M56	CABLE 42191	DY	1.00	EA	N	4.30	84361		K	.0
MTPCC 1	23107 A	00M57	CABLE 42347	DY	1.00	EA	N	4.20	84361		K	.0
MTPCC 1	23107 B	00M69	MISC CABLE	DY	1.00	EA	N	2.50	85297		K	.0
MTPCC 1	23109 A	00M53	OH/REP IGNITION TRANSFORMER	DY	1.00	EA	N	.40	84361		K	.0
MTPCC 1	23109 A	00M54	CABLE 42189	DY	1.00	EA	N	5.10	84361		K	.0
MTPCC 1	23109 A	00M55	OH/REP CABLE	DY	1.00	EA	N	5.00	86303		K	.0
MTPCC 1	23109 A	00M56	CABLE 42191	DY	1.00	EA	N	4.30	84361		K	.0

LABOR STANDARD MASTER FILE 09/3. A-E046B-MM3-MX-290 PAGE 3

MTPC	RCC	FAC	CTL	J	OPER	NO	DESCRIPTION	SKILL	OCUR	UNIT	TYPE	STD	LAST	OPER	A/R	FLOW
			NO	D	NO			CODE	FACTOR	COUNT		HOURS	REVIEW	IND	CD	HRS
MTPCC	1	23109	A	00M57	CABLE	42347		DY	1.00	EA	N	4.20	84361		K	.0
MTPCC	1	23109	B	00M69	MISC CABLE			DY	1.00	EA	N	2.50	85297		K	.0
MTPCC	1	23111	A	00M52	LEAD-LH	10-380111-1	111M	DY	1.00	EA	N	3.87	85319		K	.0
MTPCC	1	23111	A	00M53	LEAD-RH	10-380110-1	111M	DY	1.00	EA	N	3.87	85319		K	.0
MTPCC	1	23111	A	00M55	LEAD 2EA.	10-380463-1	111M	DY	1.00	EA	N	5.36	85319		K	.0
MTPCC	1	23111	A	00M60	CABLE	10-382825-1	804M	DY	1.00	EA	N	1.00	85337		K	.0
MTPCC	1	23111	A	00M70	CABLE	HAD14475		DY	1.00	EA	N	.74	85337		K	.0
MTPCC	1	23111	B	00M60	CABLE	10-382825-1	804N	DY	1.00	EA	N	.50	84105		K	.0
MTPCC	1	23111	B	00M69	MISC CABLE		309M	DY	1.00	EA	N	2.50	85297		A	.0
MTPCC	1	23119	A	00M53	OH/REP IGNITION TRANSFORMER			DY	1.00	EA	N	.40	84361		F	.0
MTPCC	1	23119	A	00M54	CABLE	42189		DY	1.00	EA	N	5.10	84361		F	.0
MTPCC	1	23119	A	00M55	OH/REP CABLE			DY	1.00	EA	N	5.00	86303		F	.0
MTPCC	1	23119	A	00M56	CABLE	42191		DY	1.00	EA	N	4.30	84361		F	.0
MTPCC	1	23119	A	00M57	CABLE	42347		DY	1.00	EA	N	4.20	84361		F	.0
MTPCC	1	23301	A	00M50	CABLE EXCTR R/S/I	49110-102M		DY	1.00	EA	N	.68	82044		K	.0
MTPCC	1	23301	A	00M51	CABLE EXCTR L/S/I	49111 102M		DY	1.00	EA	N	.68	82044		K	.0
MTPCC	1	23301	A	00M52	CABLE TC REAR	484340 102M		DY	1.00	EA	N	.93	82044		K	.0
MTPCC	1	23301	A	00M53	CABLE TC FRONT	481619 102M		DY	1.00	EA	N	.93	82044		K	.0
MTPCC	1	23301	A	00M69	MIS CABLE REP		102M	DY	1.00	EA	N	.25	81015		K	.0
MTPCC	1	23301	B	00M50	CABLE EXCTR R/S/I	491110 202M		DY	1.00	EA	N	.34	82044		K	.0
MTPCC	1	23301	B	00M51	CABLE EXCTR L/S/I	49111 202M		DY	1.00	EA	N	.34	82044		K	.0
MTPCC	1	23301	B	00M52	CABLE I/C REAR	484340 202M		DY	1.00	EA	N	.46	82044		K	.0
MTPCC	1	23301	B	00M53	CABLE TC FRONT	481619 202M		DY	1.00	EA	N	.46	82044		K	.0
MTPCC	1	23301	B	00M69	MISC CABLE REPAIR		202M	DY	1.00	EA	N	.25	82044		K	.0
MTPCC	1	23302	A	00M50	O/H CABLE	40780		DY	1.00	EA	N	1.36	86336		K	.0
MTPCC	1	23302	A	00M52	O/H CABLE	434505		DY	1.00	EA	N	.93	86322		K	.0

MTPC	RCC FAC	CYL J NO D	OPER NO	LABOR STANDARD MASTER FILE	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	PAGE	FLOW HRS
MTPCC	1	23302	A	00M53	O/H CABLE 41039	DY	1.00	EA N	4.21	86336	K	K	4	.0
MTPCC	1	23302	A	00M54	O/H CABLE 41038	DY	1.00	EA N	4.21	86336	K	K		.0
MTPCC	1	23303	A	00M15	CABLE 419323	102M	1.00	EA N	1.88	81015	K	K		.0
MTPCC	1	23303	A	00M50	CABLE 448617	102M	1.00	EA N	1.88	81015	K	K		.0
MTPCC	1	23303	A	00M52	CABLE 4733.P3	DY	1.00	EA N	.85	87113	K	K		.0
MTPCC	1	23303	A	00M53	CABLE 10-168496-1	102M	1.00	EA N	.85	81015	K	K		.0
MTPCC	1	23303	A	00M54	CABLE 10-168497-1	102M	1.00	EA N	.85	81015	K	K		.0
MTPCC	1	23303	A	00M55	CABLE 10-168498-1	102M	1.00	EA N	.77	81015	K	K		.0
MTPCC	1	23303	A	00M58	MISC CABLE REPAIR	102M	1.00	EA N	.25	81015	K	K		.0
MTPCC	1	23303	A	00M93	ENGINE ACCESS	102M	1.00	EA N	4.40	81015	K	K		.0
MTPCC	1	23303	B	00M69	MISC CABLE REPAIR	102M	1.00	EA N	.25	81017	K	K		.0
MTPCC	1	23308	A	00M50	CABLE 40780	102M	1.00	EA N	1.38	81015	K	K		.0
MTPCC	1	23309	A	00M51	SWITCH 481695	DY	1.00	EA N	2.05	87113	K	K		.0
MTPCC	1	23305	A	00M52	CABLE 434505	102M	1.00	EA N	.93	81015	K	K		.0
MTPCC	1	23308	A	00M53	HARNES 41039	102M	1.00	EA N	4.21	81015	K	K		.0
MTPCC	1	23308	A	00M54	HARNES 41038	102M	1.00	EA N	4.21	81015	K	K		.0
MTPCC	1	23305	A	00M69	MISC CABLE REPAIR	102M	1.00	EA N	.25	81015	K	K		.0
MTPCC	1	23308	A	00M93	ENGINE ACCESS	102M	1.00	EA N	11.10	82044	K	K		.0
MTPCC	1	23308	A	00M51	CABLE TR REAR	102M	1.00	EA N	.68	81015	K	K		.0
MTPCC	1	23308	B	00M51	SWITCH 377102	202M	1.00	EA N	2.05	82051	K	K		.0
MTPCC	1	23308	B	00M52	CABLE 434505	102M	1.00	EA N	.27	81015	K	K		.0
MTPCC	1	23308	B	00M53	CABLE 41039	102M	1.00	EA N	.90	81015	K	K		.0
MTPCC	1	23305	B	00M54	CABLE 41038	102M	1.00	EA N	1.59	81015	K	K		.0
MTPCC	1	23305	B	00M69	MISC CABLE REPAIR	102M	1.00	EA N	.33	81015	K	K		.0
MTPCC	1	23305	B	00M51	CABLE TC REAR 421486	102M	1.00	EA N	.77	81015	K	K		.0
MTPCC	1	23305	B	00M50	CABLE 40780	102M	1.00	EA N	.22	81015	K	K		.0

MTPCC	RCC FAC	CTL J NO D	OPER NO	LABOR STANDARD MASTER FILE	SKILL CODE	FACTOR	OCUR	UNIT COUNT	TYPE	STD HOURS	SID HOURS	LAST REVIEW	OPER IND	A/R CD	PAGE	FLOW HRS
MTPCC 1	23307 A	00M50	A	CABLE	106N	DY	1.00	EA	N	4.01	81137	B1137	K	K	5	.0
MTPCC 1	23307 A	00M51	A	HI-TENS LEAD	102N	DY	1.00	EA	N	4.29	81015	81015	K	K		.0
MTPCC 1	23307 A	00M52	A	424340	106N	DY	1.00	EA	N	1.01	82044	82044	K	K		.0
MTPCC 1	23307 A	00M53	A	481619	106N	DY	1.00	EA	N	1.01	82044	82044	K	K		.0
MTPCC 1	23307 A	00M59	A	MIS CABLE REP	106N	DY	1.00	EA	N	.33	81137	81137	K	K		.0
MTPCC 1	23309 A	00M50	A	CABLE 42053	102N	DY	1.00	EA	N	4.66	81017	81017	K	K		.0
MTPCC 1	23309 A	00M51	A	CABLE 42054	102N	DY	1.00	EA	N	4.66	81017	81017	K	K		.0
MTPCC 1	23309 A	00M52	A	CABLE 434505	102N	DY	1.00	EA	N	.93	81017	81017	K	K		.0
MTPCC 1	23309 A	00M59	A	MISC CABLE	102N	DY	1.00	EA	N	.25	81017	81017	K	K		.0
MTPCC 1	23309 B	00M51	B	CABLE HY 42084	102N	DY	1.00	EA	N	.93	81017	81017	K	K		.0
MTPCC 1	23309 B	00M52	B	MISC CABLE REPAIR	102N	DY	1.00	EA	N	.25	81017	81017	K	K		.0
MTPCC 1	23309 B	00M50	B	CABLE 42053	102N	DY	1.00	EA	N	.68	81017	81017	K	K		.0
MTPCC 1	23313 A	00M15	A	O/H CABLE 419323	DY		1.00	EA	N	1.88	86256	86256	K	K		.0
MTPCC 1	23313 A	00M50	A	O/H CABLE 448617	DY		1.00	EA	N	1.86	86256	86256	K	K		.0
MTPCC 1	23313 A	00M53	A	RECOND CABLE 10-166496-1	DY		1.00	EA	N	.85	86259	86259	K	K		.0
MTPCC 1	23313 A	00M54	A	O/H CABLE 10-166497-1	DY		1.00	EA	N	.85	86256	86256	K	K		.0
MTPCC 1	23313 A	00M55	A	O/H CABLE 10-166498-1	DY		1.00	EA	N	.77	86256	86256	K	K		.0
MTPCC 1	24101 A	00M66	A	TF41 T5 TEMP BOX 6861895	DY		1.00	EA	N	.71	86220	86220	K	K		.0
MTPCC 1	24101 A	00M67	A	TF41 THERMO T-1 6866874	DY		1.00	EA	N	.73	86209	86209	K	K		.0
MTPCC 1	24101 A	00M68	A	TF41 LEAD ASSY R/H 6865871	DY		1.00	EA	N	.90	86212	86212	K	K		.0
MTPCC 1	24101 A	00M69	A	MISC CABLE REP	102N	DY	1.00	EA	N	.25	81017	81017	K	K		.0
MTPCC 1	24101 A	00M70	A	TF41 PWR HARNESS 6868773	DY		1.00	EA	N	8.33	86223	86223	K	K		.0
MTPCC 1	24101 A	00M73	A	TF41 THERMAL BLUB 6861673	DY		1.00	EA	N	.80	86139	86139	K	K		.0
MTPCC 1	24101 A	00M74	A	TF41 PRESS F/SWITCH 6868300	DY		1.00	EA	N	.87	86139	86139	K	K		.0
MTPCC 1	24101 A	00M75	A	TF41 T5 HARNESS 6861778	DY		1.00	EA	N	.68	86190	86190	K	K		.0
MTPCC 1	24101 A	00M76	A	TF41 T5 HARNESS POS 6866872	DY		1.00	EA	N	.77	86190	86190	K	K		.0

LABOR STANDARD MASTER FILE										09/3		A-E046B-MM3-MX-290			PAGE 6	
MTPCC	RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS			
MTPCC 1	24101 A	00M77	TF41	TS HARNESS NEG 6866873	DY	1.00	EA	N	.77	88191	K	.0				
MTPCC 1	24101 A	00M78	TF41	LEAD ASSY L/H 6865872	DY	1.00	EA	N	.90	88192	K	.0				
MTPCC 1	24101 B	00M66	TF41	TS TEMP BOX 6861898	DY	1.00	EA	N	.53	88220	K	.0				
MTPCC 1	24101 B	00M67	TF41	THERMO T-1 6866874	DY	1.00	EA	N	.54	88209	K	.0				
MTPCC 1	24101 B	00M68	TF41	LEAD ASSY R/H 6865871	DY	1.00	EA	N	.67	88212	K	.0				
MTPCC 1	24101 B	00M69	MISC	CABLE 111N	DY	1.00	EA	N	.18	81332	K	.0				
MTPCC 1	24101 B	00M70	TF41	PWR HARNESS 6868773	DY	1.00	EA	N	6.24	88223	K	.0				
MTPCC 1	24101 M	00M73	TF41	THERMAL SLUB 6861673	DY	1.00	EA	N	.37	88139	K	.0				
MTPCC 1	24101 B	00M74	TF41	PRESS F/SWITCH 6868300	DY	1.00	EA	N	.73	88139	K	.0				
MTPCC 1	24101 B	00M75	TF41	TS HARNESS ASY 6861778	DY	1.00	EA	N	.61	88190	K	.0				
MTPCC 1	24101 B	00M76	TF41	TS HARNESS POS 6866872	DY	1.00	EA	N	.57	88190	K	.0				
MTPCC 1	24101 B	00M77	TF41	TS HARNESS NEG 6866873	DY	1.00	EA	N	.57	88191	K	.0				
MTPCC 1	24101 B	00M78	TF41	LEAD ASSY L/H 6865872	DY	1.00	EA	N	.67	88192	K	.0				
MTPCC 1	24101 B	00M79	REP	TF41 CABLE 23004350	DY	1.00	EA	N	.37	88012	K	.0				
MTPCC 1	24101 G	00M06	TDR	ENG ACCY TF41A1 102N	DY	1.00	EA	N	1.00	81017	K	.0				
MTPCC 1	24102 A	00M51	TF41	T3 HARNESS ASSY 6867264	DY	1.00	EA	N	.68	81017	K	.0				
MTPCC 1	24102 A	00M52	WORKHORSE	HARNS 6867264 102N	DY	1.00	EA	N	.01	81017	K	.0				
MTPCC 1	24102 A	00M58	TF41	LEAD ASSY TS 6865848	DY	1.00	EA	N	.68	81017	K	.0				
MTPCC 1	24102 A	00M66	TF41	TS TEMP BOX 6861695	DY	1.00	EA	N	.71	88220	K	.0				
MTPCC 1	24102 A	00M67	TF41	THERMO T-1 6866879	DY	1.00	EA	N	.73	88209	K	.0				
MTPCC 1	24102 A	00M68	TF41	LEAD ASSY R/H 6865871	DY	1.00	EA	N	.90	88212	K	.0				
MTPCC 1	24102 A	00M69	MISC	CABLE REPAIR 102N	DY	1.00	EA	N	.28	81017	K	.0				
MTPCC 1	24102 A	00M70	O/H	TF41 PW HARNESS 6869451	DY	1.00	EA	N	11.00	85081	K	.0				
MTPCC 1	24102 A	00M73	TF41	THERMAL SLUB 6861673	DY	1.00	EA	N	.80	88139	K	.0				
MTPCC 1	24102 A	00M74	TF41	PRESS F/SWITCH 6868300	DY	1.00	EA	N	.97	88139	K	.0				
MTPCC 1	24102 A	00M75	TF41	TS LEAD ASSY 6866304	DY	1.00	EA	N	.68	88190	K	.0				

LABOR STANDARD MASTER FILE										09/30	A-E0468-MM3-MX-290	PAGE 7	
MTPC	RCC FAC	GT: J NO U	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	UNIT TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
MTPCC	1	24102	A	00M76	TF41 T5 HARNESS POS 6866872	DY	1.00	EA	N	.77	86191	K	.0
MTPCC	1	24102	A	00M77	TF41 T5 HARNESS NEG 6866873	DY	1.00	EA	N	.77	86191	K	.0
MTPCC	1	24102	A	00M78	TF41 LEAD ASSY L/H 6865872	DY	1.00	EA	N	.90	86192	K	.0
MTPCC	1	24102	B	00M51	TF41 T3 HARNESS ASSY 6867264	DY	1.00	EA	N	.51	81140	K	.0
MTPCC	1	24102	B	00M52	WORKHORSE HARNS 6867264	DY	1.00	EA	N	.01	86223	K	.0
MTPCC	1	24102	B	00M59	TF41 LEAD ASSY T5 6865048	DY	1.00	EA	N	.51	86212	K	.0
MTPCC	1	24102	B	00M86	TF41 T5 TEMP BOX 6861896	DY	1.00	EA	N	.53	86220	K	.0
MTPCC	1	24102	B	00M87	TF41 THERMO 7-1 6866879	DY	1.00	EA	N	.54	86209	K	.0
MTPCC	1	24102	B	00M88	TF41 LEAD ASSY R/H 6866871	DY	1.00	EA	N	.67	86212	K	.0
MTPCC	1	24102	B	00M69	TF41 MISC CABLE REPAIR	DY	1.00	EA	N	.18	86220	K	.0
MTPCC	1	24102	B	00M70	TF41 PW HARNESS ASSY 6899461	DY	1.00	EA	N	8.25	85343	K	.0
MTPCC	1	24102	B	00M73	TF41 THERMAL SLUB 6861673	DY	1.00	EA	N	.37	86139	K	.0
MTPCC	1	24102	B	00M74	TF41 PRESS F/SWITCH 6866300	DY	1.00	EA	N	.73	86139	K	.0
MTPCC	1	24102	B	00M75	TF41 T5 LEAD ASY 6866304	DY	1.00	EA	N	.51	86190	K	.0
MTPCC	1	24102	B	00M76	TF41 T5 HARNESS POS 6866872	DY	1.00	EA	N	.57	86191	K	.0
MTPCC	1	24102	B	00M77	TF41 T5 HARNESS NEG 6866873	DY	1.00	EA	N	.57	86191	K	.0
MTPCC	1	24102	B	00M78	TF41 LEAD ASSY L/H 6865872	DY	1.00	EA	N	.67	86192	K	.0
MTPCC	1	24102	G	00M06	TDR ENG ACCY TF41-A2 102M	DY	1.00	EA	N	.86	81140	K	.0
MTPCC	1	24104	G	00M06	TDR TF41-A400 ENG ACCY 102M	DY	1.00	EA	N	1.22	81020	K	.0
MTPCC	1	24402	A	00M10	RECODE EMS HARNESS 23006511	DY	1.00	EA	N	1.00	87266	A	.0
MTPCC	1	24402	A	00M16	REP TF41 T5 TEMP BOX 6879616	DY	1.00	EA	N	.71	87266	A	.0
MTPCC	1	24402	A	00M67	REP TF41 THERMO T1 6866983	DY	1.00	EA	N	.73	87266	A	.0
MTPCC	1	24402	A	00M68	REP TF41 LEAD R H 6892439	DY	1.00	EA	N	.90	87266	A	.0
MTPCC	1	24402	A	00M70	REP TF41 PWR HARNESS 6893136	DY	1.00	EA	N	8.33	87266	K	.0
MTPCC	1	24402	A	00M73	TST TF41 THERM BULB 6861873	DY	1.00	EA	N	.50	87267	A	.0
MTPCC	1	24402	A	00M74	REP TF41 F PRESS SW 6866300	DY	1.00	EA	N	.97	87267	K	.0

LABOR STANDARD MASTER FILE										09/2		A-E046B-MM3-MX-290		PAGE 8	
MTPC	RCC FAC	GTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS		
MTPCC	1	24402	A	00M75	REP TF41 T5 LEAD 6866304	DY	1.00	EA	N	.68	87267	K	.0		
MTPCC	1	24402	A	00M76	REP TF41 T5 HARN POS 6869697	DY	1.00	EA	N	.77	87267	A	.0		
MTPCC	1	24402	A	00M77	REP TF41 T5 HARN NEG 6869698	DY	1.00	EA	N	.77	87267	A	.0		
MTPCC	1	24402	A	00M78	REP TF41 LEAD L H 6892440	DY	1.00	EA	N	.90	87267	A	.0		
MTPCC	1	24402	B	00M10	RECODE TF41 EMS H 23008119	DY	1.00	EA	N	.75	87273	A	.0		
MTPCC	1	24402	B	00M51	REP TF41 T3 HARN 6869984	DY	1.00	EA	N	.51	87278	A	.0		
MTPCC	1	24402	B	00M66	REP TF41 T5 JUNC BOX 6879616	DY	1.00	EA	N	.53	87273	A	.0		
MTPCC	1	24402	B	00M67	REP TF41 T1 THERMO 6869997	DY	1.00	EA	N	.54	87273	A	.0		
MTPCC	1	24402	B	00M68	REP TF41 IGN LD M H 6892440	DY	1.00	EA	N	.67	87273	A	.0		
MTPCC	1	24402	B	00M70	REP TF41 PWR HARNESS 6899432	DY	1.00	EA	N	2.10	87272	A	.0		
MTPCC	1	24402	B	00M76	REP TF41 T5 HARN POS 6869697	DY	1.00	EA	N	.57	87273	K	.0		
MTPCC	1	24402	B	00M77	REP TF41 T5 HARN NEG 6869698	DY	1.00	EA	N	.57	87278	A	.0		
MTPCC	1	24402	B	00M78	REP TF41 LEAD L/H 6892439	DY	1.00	EA	N	.67	87278	A	.0		
MTPCC	1	24402	P	00M79	REP TF41 T1 LEAD 6869997	DY	1.00	EA	N	.37	87278	A	.0		
MTPCC	1	25743	A	00M50	LEAD 10-106815-1J67-43 102M	DY	1.00	EA	N	.68	81022	K	.0		
MTPCC	1	25743	A	00M51	LEAD 10-111800-1 J87-43 102M	DY	1.00	EA	N	5.50	88187	K	.0		
MTPCC	1	25743	A	00M52	LEAD 10-160116-1 J57-43 102M	DY	1.00	EA	N	.68	81022	K	.0		
MTPCC	1	25743	A	00M53	LEAD 10-160115-1 J57-43 102M	DY	1.00	EA	N	.68	81022	K	.0		
MTPCC	1	25743	A	00M54	HARNESS J57-43 348262 207M	DY	1.00	EA	N	.93	82191	F	.0		
MTPCC	1	25743	A	00M55	HARNESS 323145 J57-43 102M	DY	1.00	EA	N	.93	81022	K	.0		
MTPCC	1	25743	A	00M56	CABLE 10-166491-1 J5-43 102M	DY	1.00	EA	N	1.48	81022	K	.0		
MTPCC	1	25743	A	00M57	CABLE 10-111805-1 102M	DY	1.00	EA	N	1.48	81022	K	.0		
MTPCC	1	25743	A	00M59	MISC CABLE REP J57-43 102M	DY	1.00	EA	N	.25	81022	K	.0		
MTPCC	1	25743	B	00M59	MICS CABLE REPAIR 102M	DY	1.00	EA	N	.25	81022	K	.0		
MTPCC	1	27914	A	00M25	J79 THR LEAD FLEX 106C2659P1	DY	1.00	EA	N	.55	83176	K	.0		
MTPCC	1	27914	A	00M30	J79 CABLE IGN 41825 306N	DY	1.00	EA	N	.47	83176	K	.0		

MTPCC 1 27914 A 00M35 J79 LEAD MAIN #2 5170377P2

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RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS		
MTPCC 1	27914 A	00M35	J79 LEAD MAIN #2 5170377P2	DY	1.00	EA	N	.54	83176	K		.0		
MTPCC 1	27914 A	00M40	J79 CAB IGN MAIN 106C5282P1	DY	1.00	EA	N	.53	83176	K		.0		
MTPCC 1	27914 A	00M45	J79 LEAD IGN A/B 5120833P3	DY	1.00	EA	N	.48	83176	K		.0		
MTPCC 1	27914 A	00M50	J79 THR LEAD RIG 106C2681P2	DY	1.00	EA	N	.55	83176	K		.0		
MTPCC 1	27914 A	00M55	J79 ELECT CABLE 3015M19P1	DY	1.00	EA	N	.45	83176	K		.0		
MTPCC 1	27914 A	00M80	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	83176	K		.0		
MTPCC 1	27914 A	00M85	J79 LEAD IGM 10585422P1 306N	DY	1.00	EA	N	.50	83176	K		.0		
MTPCC 1	27914 A	00M70	J79 CABLE ASSY 5170579P01	DY	1.00	EA	N	2.75	88182	K		.0		
MTPCC 1	27914 A	00M75	J79 CABLE 10582411P2 306N	DY	1.00	EA	N	.50	83176	K		.0		
MTPCC 1	27914 B	00M25	J79 THR LEAD FLEX 106C2689P1	DY	1.00	EA	N	.02	83176	K		.0		
MTPCC 1	27914 B	00M30	J79 CABLE IGM 41825 306N	DY	1.00	EA	N	.02	83176	K		.0		
MTPCC 1	27914 B	00M35	J79 LEAD MAIN #2 5170377P2	DY	1.00	EA	N	.02	83176	K		.0		
MTPCC 1	27914 B	00M40	J79 CAB IGN MAIN 106C5282P1	DY	1.00	EA	N	.02	83176	K		.0		
MTPCC 1	27914 B	00M45	J79 LEAD IGN A/B 5120833P3	DY	1.00	EA	N	.02	83176	K		.0		
MTPCC 1	27914 B	00M50	J79 THR LEAD RIG 106C2681P2	DY	1.00	EA	N	.02	83176	K		.0		
MTPCC 1	27914 B	00M55	J79 ELECT CABLE 3015M19P1	DY	1.00	EA	N	.02	83176	K		.0		
MTPCC 1	27914 B	00M70	J79 LEAD IGM 10585422P1 306N	DY	1.00	EA	N	.03	88182	K		.0		
MTPCC 1	27914 B	00M75	J79 CABLE 10582411P2 306N	DY	1.00	EA	N	.02	83176	K		.0		
MTPCC 1	27918 A	00M25	J79 LEAD THR FLEX 106C2689P1	DY	1.00	EA	N	.55	81290	K		.0		
MTPCC 1	27915 A	00M30	J79 CAB IGNITION 41825 109N	DY	1.00	EA	N	.47	81290	K		.0		
MTPCC 1	27915 A	00M35	J79 LEAD MAIN IGM 5170377P2	DY	1.00	EA	N	.54	81301	K		.0		
MTPCC 1	27915 A	00M40	J79 CAB MAIN IGM 106C5282P1	DY	1.00	EA	N	.53	81290	K		.0		
MTPCC 1	27915 A	00M45	J79 LEAD IGN A/B 5120833P3	DY	1.00	EA	N	.48	81315	K		.0		
MTPCC 1	27915 A	00M50	J79 THR LEAD RIG 106C2681P2	DY	1.00	EA	N	.55	81290	K		.0		

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RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	UNIT TYPE	STD HRS	LAST REVIEW	A/R CD	FLOW HRS			
MTPCC 1	27915 A	00M35	J79 ELECT CABLE 3015M19P1	DY	1.00	EA	N	.45	81290	K	.0			
MTPCC 1	27915 A	00M50	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	81301	K	.0			
MTPCC 1	27915 A	00M65	J79 LEAD IGN 10585422P1	DY	1.00	EA	N	.50	81301	K	.0			
MTPCC 1	27915 A	00M70	J79 CABLE ASSY 5170579P01	DY	1.00	EA	N	2.75	88182	K	.0			
MTPCC 1	27915 A	00M75	J79 CAB SPEC PUR 10582411P2	DY	1.00	EA	N	.50	81315	K	.0			
MTPCC 1	27915 B	00M25	J79 LEAD THR FLEX 106C2689P1	DY	1.00	EA	N	.02	82233	K	.0			
MTPCC 1	27915 B	00M30	J79 CAB IGNITION 41825 109N	DY	1.00	EA	N	.02	82233	K	.0			
MTPCC 1	27915 B	00M35	J79 LEAD MAIN IGN 517D377P2	DY	1.00	EA	N	.02	82233	K	.0			
MTPCC 1	27915 B	00M40	J79 CAB MAIN IGN 106C5282P1	DY	1.00	EA	N	.02	82233	K	.0			
MTPCC 1	27915 B	00M45	J79 LEAD IGN A/B 512D833P3	DY	1.00	EA	N	.02	82233	K	.0			
MTPCC 1	27915 B	00M50	J79 THR LEAD RIG 106C2691P2	DY	1.00	EA	N	.02	82233	K	.0			
MTPCC 1	27915 B	00M55	J79 ELECT CABLE 3015M19P1	DY	1.00	EA	N	.02	82233	K	.0			
MTPCC 1	27915 B	00M60	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.02	82233	K	.0			
MTPCC 1	27915 B	00M65	J79 LEAD IGN 10585422P1	DY	1.00	EA	N	.03	88182	K	.0			
MTPCC 1	27915 B	00M70	J79 CABLE ASSY 5170579P01	DY	1.00	EA	N	.02	82233	K	.0			
MTPCC 1	27915 B	00M75	J79 CAB SPEC PUR 10582411P2	DY	1.00	EA	N	.50	83239	K	.0			
MTPCC 1	27916 A	00M22	J79 SWITCH 5032M29P01	DY	1.00	EA	N	.95	83187	K	.0			
MTPCC 1	27916 A	00M25	J79 THR LEAD FLEX 106C2689P1	DY	1.00	EA	N	.47	83187	K	.0			
MTPCC 1	27916 A	00M30	J79 CABLE IGN 41825 306M	DY	1.00	EA	N	.54	83187	K	.0			
MTPCC 1	27916 A	00M35	J79 LEAD MAIN IGN 517D377P2	DY	1.00	EA	N	.53	83187	K	.0			
MTPCC 1	27916 A	00M40	J79 CAB IGN MAIN 106C5282P1	DY	1.00	EA	N	.48	83187	K	.0			
MTPCC 1	27916 A	00M45	J79 LEAD IGN A/B 5170818P01	DY	1.00	EA	N	.55	83187	K	.0			
MTPCC 1	27916 A	00M50	J79 THR LEAD RIG 106C2691P2	DY	1.00	EA	N	.45	83187	K	.0			
MTPCC 1	27916 A	00M55	J79 ELECT CABLE 3035M75P01	DY	1.00	EA	N	.57	83187	K	.0			
MTPCC 1	27916 A	00M60	J79 CAB SPEC PUR 5014M45P02	DY	1.00	EA	N	.50	83187	K	.0			
MTPCC 1	27916 A	00M65	J79 LEAD IGN 10585422P1	DY	1.00	EA	N	.50	83187	K	.0			

MTPCC	RCC FAC	CTL J NO D	OPER NO	LABOR STANDARD MASTER FILE	SKILL CODE	OCUR FACTOR	09/30	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	PAGE	11	FLOW HRS
MTPCC	1	27918	A	00M70	J79 CAB LEAD ELEC 5035M94P01	DY	1.00	EA	N	2.75	88182	K				.0
MTPCC	1	27916	A	00M75	J79 CAB SPEC PUR 105B2411P2	DY	1.00	EA	N	.50	83187	K				.0
MTPCC	1	27918	A	00M80	J79 LEAD ELEC 5032M26P02	DY	1.00	EA	N	.45	83187	K				.0
MTPCC	1	27917	A	00M22	J79 SWITCH 5032M29P01	DY	1.00	EA	N	.50	83104	K				.0
MTPCC	1	27917	A	00M26	J79 LEAD THR FLEX 106C2859P1	DY	1.00	EA	N	.55	81290	K				.0
MTPCC	1	27917	A	00M30	J79 CABLE IGM 41828	DY	1.00	EA	N	.47	81290	K				.0
MTPCC	1	27917	A	00M35	J79 LEAD MAIN IGM 517D377P2	DY	1.00	EA	N	.54	81290	K				.0
MTPCC	1	27917	A	00M40	J79 CAB MAIN IGM 106C5282P1	DY	1.00	EA	N	.53	81290	K				.0
MTPCC	1	27917	A	00M45	J79 LEAD IGM A/B 517D818P01	DY	1.00	EA	N	.48	81290	K				.0
MTPCC	1	27917	A	00M50	J79 THER LEAD RIG 106C2891P2	DY	1.00	EA	N	.55	81290	K				.0
MTPCC	1	27917	A	00M55	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.45	81290	K				.0
MTPCC	1	27917	A	00M60	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	81301	K				.0
MTPCC	1	27917	A	00M65	J79 LEAD IGM 105B5422P1	DY	1.00	EA	N	.50	81315	K				.0
MTPCC	1	27917	A	00M70	J79 LEAD ELEC 5035M94P01	DY	1.00	EA	N	2.75	88182	K				.0
MTPCC	1	27917	A	00M75	J79 CAB SPEC PUR 105B2411P2	DY	1.00	EA	N	.50	81315	K				.0
MTPCC	1	27917	A	00M80	J79 ELECT LEAD 5032M26P02	DY	1.00	EA	N	.45	82219	K				.0
MTPCC	1	27917	B	00M22	J79 SWITCH 5032M29P01	DY	1.00	EA	N	.25	83260	K				.0
MTPCC	1	27917	B	00M25	J79 LEAD THR FLEX 106C2859P1	DY	1.00	EA	N	.02	82233	K				.0
MTPCC	1	27917	B	00M30	J79 CABLE IGM 41828	DY	1.00	EA	N	.02	82233	K				.0
MTPCC	1	27917	B	00M35	J79 LEAD MAIN IGM 517D377P2	DY	1.00	EA	N	.02	82233	K				.0
MTPCC	1	27917	B	00M40	J79 CAB MAIN IGM 106C5282P1	DY	1.00	EA	N	.02	82233	K				.0
MTPCC	1	27917	B	00M45	J79 LEAD IGM A/B 517D818P01	DY	1.00	EA	N	.02	82233	K				.0
MTPCC	1	27917	B	00M50	J79 THR LEAD RIG 106C2891P2	DY	1.00	EA	N	.02	82233	K				.0
MTPCC	1	27917	B	00M55	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.02	82233	K				.0
MTPCC	1	27917	B	00M60	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.02	82233	K				.0
MTPCC	1	27917	B	00M65	J79 LEAD IGM 105B5422P1	DY	1.00	EA	N	.02	82233	K				.0

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RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS	
MTPCC 1	27917 B	00M76	J79 LEAD ELECT 5035M94P01	DY	1.00	EA	N	.03	88182		K	.0	
MTPCC 1	27917 B	00M75	J79 CAB SPEC PUR 10582411P2	DY	1.00	EA	N	.02	82233		K	.0	
MTPCC 1	27917 B	00M80	J79 ELECT LEAD 5032M26P02	DY	1.00	EA	N	.02	83176		K	.0	
MTPCC 1	27918 A	00M22	J79 SWITCH 5032M29P01	DY	1.00	EA	N	.50	83239		K	.0	
MTPCC 1	27918 A	00M28	J79 THR LEAD FLEX 106C2689P1	DY	1.00	EA	N	.55	83187		K	.0	
MTPCC 1	27918 A	00M30	J79 CABLE IGN 41825	DY	1.00	EA	N	.47	83187		K	.0	
MTPCC 1	27918 A	00M35	J79 LEAD MAIN IGN 517D377P2	DY	1.00	EA	N	.54	83187		K	.0	
MTPCC 1	27918 A	00M40	J79 CAB MAIN IGN 106C5282P1	DY	1.00	EA	N	.53	83187		K	.0	
MTPCC 1	27918 A	00M45	J79 LEAD IGN A/B 517D818P01	DY	1.00	EA	N	.48	83187		K	.0	
MTPCC 1	27918 A	00M50	J79 THER LEAD RIG 106C2691P2	DY	1.00	EA	N	.55	83187		K	.0	
MTPCC 1	27918 A	00M55	J79 ELECT CABLE 5035M76P01	DY	1.00	EA	N	.45	83187		K	.0	
MTPCC 1	27918 A	00M60	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.57	83187		K	.0	
MTPCC 1	27918 A	00M65	J79 LEAD IGN 10585422P1	DY	1.00	EA	N	.50	83187		K	.0	
MTPCC 1	27918 A	00M70	J79 LEAD ELECT 5035M94P01	DY	1.00	EA	N	2.75	88182		K	.0	
MTPCC 1	27918 A	00M75	J79 CABLE SPE PUR 10582411P2	DY	1.00	EA	N	.50	83187		K	.0	
MTPCC 1	27918 A	00M80	J79 LEAD ELECT 5032M26P02	DY	1.00	EA	N	.45	83187		K	.0	
MTPCC 1	27918 B	00M22	J79 SWITCH 5032M29P01	DY	1.00	EA	N	.25	83239		K	.0	
MTPCC 1	27918 B	00M28	J79 THR LEAD FLEX 106C2689P1	DY	1.00	EA	N	.02	83176		K	.0	
MTPCC 1	27918 B	00M30	J79 CABLE IGN 41825	DY	1.00	EA	N	.02	83211		K	.0	
MTPCC 1	27918 B	00M35	J79 LEAD MAIN IGN 517D377P2	DY	1.00	EA	N	.02	83176		K	.0	
MTPCC 1	27918 B	00M40	J79 CAB MAIN IGN 106C5282P1	DY	1.00	EA	N	.02	83176		K	.0	
MTPCC 1	27918 B	00M45	J79 LEAD IGN A/B 517D818P01	DY	1.00	EA	N	.02	83176		K	.0	
MTPCC 1	27918 B	00M50	J79 THER LEAD RIG 106C2691P2	DY	1.00	EA	N	.02	83176		K	.0	
MTPCC 1	27918 B	00M55	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.02	83176		K	.0	
MTPCC 1	27918 B	00M60	J79 CABLE ASSY 5014M45P02	DY	1.00	EA	N	.02	83176		K	.0	
MTPCC 1	27918 B	00M65	J79 LEAD IGN 10585422P1	DY	1.00	EA	N	.02	83176		K	.0	

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RCC F/C	CTL NO	J	OPER NO	DESCRIPTION	SKILL CODE	OCCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS		
MTPCC	1	27918	B	00M70	J79 LEAD ELECT 5035M94P01	DY	1.00	EA	N	.03	88182	K	.0		
MTPCC	1	27918	B	00M75	J79 CABLE SPE PUR 10582411P2	DY	1.00	EA	N	.02	83176	K	.0		
MTPCC	1	27918	B	00M80	J79 LEAD ELECT 5032M26P02	DY	1.00	EA	N	.04	83176	K	.0		
MTPCC	1	27919	A	00M21	J79 SWITCH 5032M29P01	DY	1.00	EA	N	.50	83239	K	.0		
MTPCC	1	27919	A	00M25	J79 THR LEAD FLEX 105C2689P1	DY	1.00	EA	N	.55	83187	A	.0		
MTPCC	1	27919	A	00M30	J79 CABLE IGN 41825	DY	1.00	EA	N	.47	83187	A	.0		
MTPCC	1	27919	A	00M35	J79 LEAD MAIN IGN 517D377P2	DY	1.00	EA	N	.54	83187	A	.0		
MTPCC	1	27919	A	00M40	J79 CAB MAIN IGN 105C9282P1	DY	1.00	EA	N	.53	83187	A	.0		
MTPCC	1	27919	A	00M45	J79 LEAD IGN A/B 517D818P01	DY	1.00	EA	N	.48	83187	A	.0		
MTPCC	1	27919	A	00M50	J79 THER LEAD RIG 105C2691P2	DY	1.00	EA	N	.55	83187	A	.0		
MTPCC	1	27919	A	00M55	J79 ELECT CABLE 5035M75P01	DY	1.00	EA	N	.45	83187	A	.0		
MTPCC	1	27919	A	00M60	J79 CABLE ASSY 5014M46P02	DY	1.00	EA	N	.57	83187	A	.0		
MTPCC	1	27919	A	00M65	J79 LEAD IGN 10585422P1	DY	1.00	EA	N	.50	83187	A	.0		
MTPCC	1	27919	A	00M70	J79 LEAD ELECT 5035M94P01	DY	1.00	EA	N	2.75	88182	K	.0		
MTPCC	1	27919	A	00M75	J79 CABLE SPE PUR 10582411P2	DY	1.00	EA	N	.50	83187	A	.0		
MTPCC	1	27919	A	00M80	J79 LEAD ELECT 5032M26P02	DY	1.00	EA	N	.45	83187	A	.0		
MTPCC	1	29024	A	00M05	SHAFT 109M	BY	1.00	EA	N	1.00	81259	A	.0		
MTPCC	1	29043	A	00M05	SHAFT 109M	BY	1.00	EA	N	1.00	81259	A	.0		
MTPCC	1	29412	A	00M05	SHAFT 109M	BY	1.00	EA	N	1.00	81259	A	.0		
MTPCC	1	29412	A	00M50	CABLE SENS 10-352647-1	BY	1.00	EA	N	.62	86177	K	.0		
MTPCC	1	30011	A	00M05	CABLE BRANCHED 201-3200 007M	DY	1.00	EA	N	2.30	80209	K	.0		
MTPCC	1	30035	A	00M05	REP SOLENOID 698803A 102M	DY	1.00	EA	N	.37	81022	K	.0		
MTPCC	1	30033	A	00M10	HARNESS P/N 54552 102N	DY	1.00	EA	N	.69	82247	K	.0		
MTPCC	1	30041	A	00M05	REP CSD HARNESS 692104007M	DY	1.00	EA	N	.03	80211	F	.0		
MTPCC	1	30048	A	00M05	REP CSD COMPNTS F-111 007M	DY	1.00	EA	N	.99	80209	K	.0		
MTPCC	1	30057	A	00M05	HARNESS ASSY CSD 54528 106M	DY	1.00	EA	N	.06	81140	K	.0		

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RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS			
MTPCC 1	30160 A	00M05	ACT	408889	007N	AY	1.00	EA	N	3.32	80208	K	.0		
MTPCC 1	31261 A	00M05	SCOOP	P/N 840246-6	301N	BY	1.00	EA	N	7.24	83015	K	.0		
MTPCC 1	31261 G	00M05	QDR/TDR SCOOP	840246-6	007N	BY	1.00	EA	N	2.50	80208	K	.0		
MTPCC 1	31288 A	00M05	ACTUATOR	4369-1	304N	AY	1.00	EA	N	3.77	83078	K	.0		
MTPCC 1	31289 A	00M05	ACT	GYLC 6497	007N	AY	1.00	EA	N	3.92	80208	K	.0		
MTPCC 1	31364 G	00M05	ACT QUAL ANAL	1009350	007N	AY	1.00	EA	N	2.00	80217	K	.0		
MTPCC 1	31798 A	00M05	ACTUATOR	113838	305M	AY	1.00	EA	N	3.23	80167	K	.0		
MTPCC 1	31926 A	00M05	ACT	30678-17	007N	AY	1.00	EA	N	3.26	80208	K	.0		
MTPCC 1	34055 A	00M05	CABLE TF30	P/M 43278		DY	1.00	EA	N	11.98	85197	K	.0		
MTPCC 1	34055 G	00M05	PERF TDR CABLE ASSY		001M	DY	1.00	EA	N	1.32	80167	A	.0		
MTPCC 1	34103 A	00M05	OH TF41 P M GENER	886889		BY	1.00	EA	N	6.00	80208	K	.0		
MTPCC 1	34103 G	00M05	QDR/TDR GEN	886889	106M	BY	1.00	EA	N	1.50	81140	K	.0		
MTPCC 1	34107 A	00M05	HARNES	54852	007N	DY	1.00	EA	N	1.65	80198	K	.0		
MTPCC 1	34107 G	00M05	QUAL ANAL HARNES	54852	007N	DY	1.00	EA	N	1.84	80208	K	.0		
MTPCC 1	34108 A	00M05	TACH-GENERATOR	8862450	201M	BY	1.00	EA	N	1.44	82008	A	.0		
MTPCC 1	34146 A	00M05	MAJOR REPAIR TRANSDUCER	110M	BY	BY	1.00	EA	N	7.20	82844	K	.0		
MTPCC 1	34148 A	00M05	STAT RTR	10-387925-1	007N	BY	1.00	EA	N	.96	80198	K	.0		
MTPCC 1	34149 A	00M05	BOX&CABLE	HAD18100	309N	DY	1.00	EA	N	3.45	81327	K	.0		
MTPCC 1	34149 G	00M05	BOX & CABLE	HAD18100		DY	1.00	EA	N	1.00	85309	A	.0		
MTPCC 1	34156 A	00M05	CABLE TF-30	10-352650-1	111N	DY	1.00	EA	N	3.71	81327	K	.0		
MTPCC 1	34181 A	00M05	CABLE TF30	10-352648	207M	BY	1.00	EA	N	8.82	82184	F	.0		
MTPCC 1	34181 G	00M05	CABLE	P/N 10-352648	212N	BY	1.00	EA	N	1.59	82348	A	.0		
MTPCC 1	34164 A	00M05	BOX&CABLE	HAD14775	309N	DY	1.00	EA	N	3.45	81327	K	.0		
MTPCC 1	34164 G	00M05	PERFORM QUAL ANALYSIS	012M	DY	DY	1.00	EA	N	1.50	81006	A	.0		
MTPCC 1	34167 A	00M05	CABLE	10-352649-1	111N	DY	1.00	EA	N	4.76	81327	K	.0		
MTPCC 1	34167 G	00M05	CABLE	P/N 10-352649-1	211N	DY	1.00	EA	N	.70	82322	A	199.8		

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MTPCC

RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	LAST REVIEW	STD HRS	OPER IND	A/R CD	FLOW HRS
MTPCC 1	34179 A	00M05	FILTER SWITCH 481695	110M DY	1.00	EA N	81292	1.52	K	K	.0
MTPCC 1	34179 G	00M05	QUAL AUDIT SWIT 481695	004N DY	1.00	EA N	80167	1.17	A	A	.0
MTPCC 1	34287 A	00M05	HARNES 42440 TF33	DY	1.00	EA N	88183	5.71	K	K	.0
MTPCC 1	34287 G	00M05	QUALITY AUDIT	DY	1.00	EA N	85149	2.00	A	A	.0
MTPCC 1	34324 A	00M05	CABLE P/N 578131	305N DY	1.00	EA N	82184	3.45	K	K	.0
MTPCC 1	34324 G	00M05	TDR CABLE	108N DY	1.00	EA N	81255	1.00	A	A	.0
MTPCC 1	34327 A	00M05	ACT GRP 1 1433-663089	066M AY	1.00	EA N	80209	5.71	K	K	.0
MTPCC 1	34327 G	00M05	ACTUATOR 1433-663089	308N AY	1.00	EA N	83260	1.50	A	A	.0
MTPCC 1	34333 A	00M05	BOX & CABLE 978130	308N DY	1.00	EA N	80167	3.45	K	K	.0
MTPCC 1	34333 G	00M05	CABLE & BOX 978130	007M DY	1.00	EA N	80217	1.57	K	K	.0
MTPCC 1	34510 A	00M05	CLUTCH PACK 42102R110	007N BY	1.00	EA N	80209	19.59	K	K	.0
MTPCC 1	34510 G	00M05	CLUTCH PACK 42102R110	007M BY	1.00	EA N	80209	5.69	K	K	.0
MTPCC 1	34512 A	00M05	ACTUATOR 1436-543054	AY	1.00	EA N	88210	5.13	K	K	.0
MTPCC 1	34513 A	00M05	ACTUATOR P/N 701000	405E AY	1.00	EA E	84152	4.97	K	K	.0
MTPCC 1	34522 A	00M05	ACT GRP 1 1433-613187	065N AY	1.00	EA N	80167	5.42	K	K	.0
MTPCC 1	34522 G	00M05	TDR ACTUATOR 1433-613187	AY	1.00	EA N	88258	1.15	A	A	199.8
MTPCC 1	34544 A	00M05	ACTUATOR 1433-613523	AY	1.00	EA E	84124	5.86	K	K	.0
MTPCC 1	34544 G	00M05	TDR ACTUATR 1433-613523	002N AY	1.00	EA N	80167	1.15	A	A	.0
MTPCC 1	34549 A	00M05	OVERHAUL GEN P/N 625222	110M BY	1.00	EA N	82044	5.00	F	F	.0
MTPCC 1	34549 G	00M05	PRE QUALITY ANALYSIS	111M BY	1.00	EA N	81332	1.50	K	K	.0
MTPCC 1	34642 A	00M05	ACT 541216-1-1	007N AY	1.00	EA N	80209	4.38	K	K	.0
MTPCC 1	35008 A	00M05	SERVO 669777-361	302N BY	1.00	EA E	83057	8.02	H	H	.0
MTPCC 1	35008 G	00M05	QUAL ANAL 669777-361	007M BY	1.00	EA N	80209	3.22	K	K	.0
MTPCC 1	35009 A	00M05	MTR & DRV 684244-31	007M BY	1.00	EA N	80209	7.98	K	K	.0
MTPCC 1	35009 G	00M05	MTR & DRIVE 684244-31	303M BY	1.00	EA N	83055	2.00	K	K	.0
MTPCC 1	35018 G	00M05	DRUM & BRACKET 669779	212N BY	1.00	EA N	82345	1.00	A	A	.0

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MTPCC	ACC FAC	CIL J NO D	OPER NO	LABOR STANDARD MASTER FILE	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS	PAGE 17
MTPCC 1	38667	A	00M05	J-79 TORQUE MOTOR & RESISTOR	BY	1.00	EA	E	3.52	84147	K	.0			
MTPCC 1	38668	A	00M05	J-79 GENERATOR 868C691P1	RY	1.00	EA	N	1.40	82016	K	.0			
MTPCC 1	38697	A	00M05	J-79 SWITCH 874C621P1	DY	1.00	EA	E	2.21	83309	K	.0			
MTPCC 1	38697	G	00M05	J-79 SWITCH 874C621P1	DY	1.00	EA	N	1.00	83187	K	.0			
MTPCC 1	38698	A	00M05	J-79 SWITCH 874C224P2	DY	1.00	EA	E	2.16	87211	K	.0			
MTPCC 1	38698	G	00M05	J-79 SWITCH 874C224P2	DY	1.00	EA	N	1.00	83099	K	.0			
MTPCC 1	38699	A	00M05	J-79 SWITCH 311D894P02	DY	1.00	EA	N	2.50	81276	K	.0			
MTPCC 1	38699	G	00M05	J-79 SWITCH 311D894P02	DY	1.00	EA	N	1.00	83062	K	.0			
MTPCC 1	38700	A	00M05	J-79 SWITCH 876C360P3	DY	1.00	EA	E	2.25	83309	K	.0			
MTPCC 1	38700	G	00M05	J-79 SWITCH 876C360P3	DY	1.00	EA	N	1.00	83099	K	.0			
MTPCC 1	38701	A	00M05	J-79 SWITCH 5170870P03	DY	1.00	EA	N	2.75	83027	K	.0			
MTPCC 1	38701	G	00M05	J-79 SWITCH 5170870P03 EGT	DY	1.00	EA	N	1.00	82331	K	.0			
MTPCC 1	39602	A	00M05	ACTUATOR 111N	BY	1.00	EA	N	8.48	81332	K	.0			
MTPCC 1	39602	G	00M05	TDR ACT 544844-2-3	BY	1.00	EA	N	2.00	85010	A	.0			
MTPCC 1	39614	A	00M05	ACT 801000-05	BY	1.00	EA	N	2.81	80211	K	.0			
MTPCC 1	39614	G	00M05	QUAL ANAL ACT 206N	DY	1.00	EA	N	1.50	82154	A	.0			
MTPCC 1	39706	A	00M05	SERVO 1990743-2A	BY	1.00	EA	N	18.38	81140	K	.0			
MTPCC 1	39706	G	00M05	SERVO QUAL A 199074312A	BY	1.00	EA	N	1.50	80211	K	.0			
MTPCC 1	39878	A	00M05	ACTUATOR 113638	AY	1.00	EA	N	3.23	80211	K	.0			
MTPCC 1	42089	A	00M05	O/H FF TRANS 8TJ62GBA3	CT	1.00	EA	E	8.11	82233	K	.0			
MTPCC 3	42089	A	00M10	TST FF TRSM 8TJ62GBA3	CT	1.00	EA	E	.99	82280	L	.0			
MTPCC 1	42089	G	00M05	F/F TRANS 8TJ62GBA3	CT	1.00	EA	N	1.25	82044	K	.0			
MTPCC 1	42925	A	00M05	CONTROL P/N 1776286	BY	1.00	EA	E	4.53	84161	K	.0			
MTPCC 1	42925	G	00M05	CONTROL 1776286	BY	1.00	EA	N	.76	82034	K	.0			
MTPCC 1	44447	A	00M05	O/H FF TRNSM 9121-21A1	CT	1.00	EA	N	5.92	85048	K	.0			
MTPCC 3	44447	A	00M10	TST FF TRNSM 9121-21A1	CT	1.00	EA	N	1.03	85045	K	.0			

RCC FAC	CTL NO D	J OPER NO	LABOR STANDARD MASTER FILE	OPERATION DESCRIPTION	SKILL CODE	OCCTR FACTOR	UNIT COUNT	UNIT TYPE	STD HRS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
MTPCC 1	44447 G	00M05	F/F TRANS	9121-21A1	20IN CT	1.00	EA N	E	.30	82044	K		.0
MTPCC 1	45348 A	00M05	O/H FF TRANS	9117-16A1	20BN CT	1.00	EA E	E	9.12	82231	L		.0
MTPCC 3	45348 A	00M10	TST FF TRNSM	9117-16A1	CT	1.00	EA N	N	.78	85045	K		.0
MTPCC 1	45348 G	00M05	F/F TRANS	9117-16A1	20IN CT	1.00	EA N	E	1.79	82044	K		.0
MTPCC 1	45362 A	00M05	O/H FF TRANS	8TJ62GBK3	20BN CT	1.00	EA E	E	7.48	82231	L		.0
MTPCC 3	45362 A	00M10	TST FF TRNSM	8TJ62GBK3	CT	1.00	EA N	N	.97	85045	K		.0
MTPCC 1	45382 G	00M05	F/F TRANS	8TJ62GBK3	20IN CT	1.00	EA N	E	.75	82044	K		.0
MTPCC 1	45387 A	00M05	O/H FF TRANS	8TJ50GAS5	20BN CT	1.00	EA E	E	4.30	82231	L		.0
MTPCC 3	45387 A	00M10	TST FF TRNSM	8TJ50GAS5	CT	1.00	EA N	N	.78	85045	K		.0
MTPCC 1	45387 G	00M05	F/F TRANS	8TJ50GAS5	20IN CT	1.00	EA N	E	.85	82044	K		.0
MTPCC 1	45389 A	00M05	O/H FF TRNSM	8TJ50GAS4	CT	1.00	EA N	N	4.20	85045	K		.0
MTPCC 3	45389 A	00M10	TST FF TRNSM	8TJ50GAS4	CT	1.00	EA N	N	.78	85045	K		.0
MTPCC 1	45389 G	00M05	TRANSMITTER	8TJ50GAS4	30AM CT	1.00	EA N	E	.50	83088	K		.0
MTPCC 1	48371 A	00M05	O/H FF TRAN	8TJ62GBC3	20BN CT	1.00	EA E	E	6.07	82219	L		.0
MTPCC 3	48371 A	00M10	TST FF TRNSM	8TJ62GBC3	CT	1.00	EA N	N	.97	85045	K		.0
MTPCC 1	48371 G	00M05	F/F TRANS	8TJ62GBC3	20IN CT	1.00	EA N	E	1.34	82044	K		.0
MTPCC 1	48451 A	00M05	O/H FF TRANS	8TJ50GBM5	20BN CT	1.00	EA E	E	4.30	82231	L		.0
MTPCC 3	48451 A	00M10	TST FF TRAN	8TJ50GBM5	20BN CT	1.00	EA E	E	.78	82231	L		.0
MTPCC 1	48451 G	00M05	F/F TRANS	8TJ50GBM5	20IN CT	1.00	EA N	E	.85	82044	K		.0
MTPCC 1	48561 A	00M05	O/H FF TRANS	9115-16C4A	20BN CT	1.00	EA E	E	6.07	82231	L		.0
MTPCC 3	48561 A	00M10	TST FF TRNSM	9115-16C4A	CT	1.00	EA N	N	1.03	85045	K		.0
MTPCC 1	48561 G	00M05	F/F TRANS	9115-16C4A	20IN CT	1.00	EA N	E	1.20	82044	K		.0
MTPCC 1	48562 A	00M05	O/H FF TRAN	9115-16D1	20BN CT	1.00	EA E	E	7.08	82219	L		.0
MTPCC 3	48562 A	00M10	TST FF TRNSM	9115-16D1	CT	1.00	EA N	N	1.03	85045	K		.0
MTPCC 1	48562 G	00M05	F/F TRANS	9115-16D1	20IN CT	1.00	EA N	E	1.20	82044	K		.0
MTPCC 1	48563 A	00M05	O/H FF TRAN	9115-16C1A	20BN CT	1.00	EA E	E	6.07	82231	L		.0

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MTPCC

RCC FAC	CTL J NO D	CMR NO	OPERATION DESCRIPTION	SKILL CODE	OCCUR FACTOR	UNIT COUNT	TYPE	STD HOUR	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
MTPCC 3	48563 A	00M10	TST FF TRNSM 9115-16C1A	CT	1.00	EA	N	1.03	85045		K	.0
MTPCC 1	48563 G	00M05	F/F TRANS 9115-16C1A	201N	CT	EA	N	1.20	82044		K	.0
MTPCC 1	48564 A	00M05	O/H FF TRAN 9115-16B1A	208N	CT	EA	E	6.07	82231		L	.0
MTPCC 3	48564 A	00M10	TST FF TRNSM 9115-16B1A	CT	1.00	EA	N	1.03	85045		K	.0
MTPCC 1	48564 G	00M05	F/F TRANS 9115-16B1A	201N	CT	EA	N	1.20	82044		K	.0
MTPCC 1	48565 A	00M05	O/H FF TRNSM 9115-16A1A	CT	1.00	EA	N	5.92	85045		K	.0
MTPCC 1	48565 A	00M10	TST FF TRNSM 9115-16A1A	CT	1.00	EA	N	1.03	85045		K	.0
MTPCC 1	48565 G	00M05	F/F TRANS 9115-16A1A	201N	CT	EA	N	1.06	82044		K	.0
MTPCC 1	49189 G	00M05	ACT QUAL ANAL 1008350 007N	CT	1.00	EA	N	2.00	80211		K	.0
MTPCC 1	49226 A	00M05	REP ACTUATOR	112N	AV	EA	N	4.08	81339		K	.0
MTPCC 1	49238 A	00M05	ACTUATOR P/N 541214-2	304N	AV	EA	N	4.22	83074		K	.0
MTPCC 1	49280 A	00M05	ACTUATOR P/N 540906-2-2	304N	AV	EA	N	4.22	83078		K	.0
MTPCC 1	49419 A	00M05	ACTUATOR P/N 499-00	208N	AV	EA	N	3.49	82240		A	.0
MTPCC 1	49419 G	00M05	ACTUATOR	499-00	AV	EA	N	1.00	83263		A	.0
MTPCC 1	49420 A	00M05	O/H ACTUATOR 499-00-1	106N	AV	EA	N	2.89	81140		K	.0
MTPCC 1	49420 G	00M05	TDR ACT	499-00-1	AV	EA	N	1.50	81140		K	.0
MTPCC 1	49425 A	00M05	ACTUATOR	38140+4	M046	EA	N	4.34	80046		K	.0
MTPCC 1	49530 A	00M05	O/H FF TRNSM 9115-16C4A	CT	1.00	EA	N	5.92	85045		K	.0
MTPCC 3	49530 A	00M10	TST FF TRNSM 9115-16C4A	CT	1.00	EA	N	1.03	85045		K	.0
MTPCC 1	49531 A	00M05	O/H FF TRNSM 9115-16D1	CT	1.00	EA	N	5.92	85045		K	.0
MTPCC 3	49531 A	00M10	TST FF TRNSM 9115-16D1	CT	1.00	EA	N	1.03	85045		K	.0
MTPCC 1	49532 A	00M05	O/H FF TRNSM 9115-16C1A	CT	1.00	EA	N	5.92	85045		K	.0
MTPCC 3	49532 A	00M10	TST FF TRNSM 9115-16C1A	CT	1.00	EA	N	1.03	85045		K	.0
MTPCC 1	49533 A	00M05	O/H FF TRNSM 9115-16A1A	CT	1.00	EA	N	5.92	85045		K	.0
MTPCC 3	49533 A	00M10	TST FF TRNSM 9115-16A1A	CT	1.00	EA	N	1.03	85045		K	.0
MTPCC 1	49534 A	00M05	O/H FF TRNSM 9115-16B1A	CT	1.00	EA	N	5.92	85045		K	.0

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RCC FAC	CTL NO	J	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
MTPCC 3	49534	A	00M10	TST FF TRNSM 8115-18B1A	QT	1.00	EA	N	1.03	85045	K		.0
MTPCC 1	49542	A	00M05	CABLE 749022 002N	DY	1.00	EA	N	8.00	80167	A		.0
MTPCC 1	49542	G	00M05	CABLE 749022 1F30	DY	1.00	EA	N	1.00	87042	K		.0
MTPCC 1	49550	A	00M05	ACTUATOR 541218-3-1 304N	AY	1.00	EA	N	4.22	83068	K		.0
MTPCC 1	49558	A	00M05	ACTUATOR 543388-6-1 301N	AY	1.00	EA	N	9.02	83034	K		.0
MTPCC 1	49574	A	00M05	ACT-GRP 6 541076-4-2 004N	DY	1.00	EA	N	4.87	80167	K		.0
MTPCC 1	49582	A	00M05	O/H FF [REDACTED] 003 208N	QT	1.00	EA	E	6.07	82219	L		.0
MTPCC 3	49582	A	00M10	TST FF TRNSM 150-005-003	CT	1.00	EA	N	.76	85045	K		.0
MTPCC 1	49582	G	00M05	TRANSMITTER 150-005-003 205N	CT	1.00	EA	N	2.00	82133	A		.0
MTPCC 1	49619	A	00M05	MOTOR DRIVE 658678-161 008N	BY	1.00	EA	N	5.88	80274	A		.0
MTPCC 1	49677	A	00M05	OVERHAUL ASSY67803-461 103N	BY	1.00	EA	N	5.98	81112	A		.0
MTPCC 1	49697	A	00M05	ACTUATOR 540908-4-2 304N	AY	1.00	EA	N	4.22	83068	K		.0
MTPCC 1	49705	A	00M05	SENSOR 548842-2-1 112N	BY	1.00	EA	N	5.80	82030	A		.0
MTPCC 1	49717	A	00M05	ACTUATOR P/N540254-3 101N	BY	1.00	EA	N	6.37	81036	K		.0
MTPCC 1	49720	A	00M05	HARNESS CDS 697158 111N	DY	1.00	EA	N	.01	81327	K		.0
MTPCC 1	49816	A	00M05	ACTUATOR 499-00-3 110N	AY	1.00	EA	N	3.80	81278	A		.0
MTPCC 1	49816	G	00M05	ACTUATOR 499-00-3 212N	AY	1.00	EA	N	1.00	82362	A		.0
MTPCC 1	49831	A	00M05	ACTUATOR 720434-2 & 3 204N	AY	1.00	EA	N	3.80	82119	A		.0
MTPCC 1	49850	A	00M05	NAV LIGHT 40-0192-3 204N	BY	1.00	EA	N	8.00	82112	K		.0
MTPCC 1	49851	A	00M05	ACTUATOR 540908-3-1 111N	AY	1.00	EA	N	2.80	81311	A		.0
MTPCC 1	49862	A	00M05	ACTUATOR 32-0260-4 111N	AY	1.00	EA	N	3.50	81350	A		.0
MTPCC 1	49875	A	00M05	REPAIR HARNESS 714973C	DY	1.00	EA	N	.30	84231	A		.0
MTPCC 1	50061	A	00M05	TEMP SELECTOR 757040-1 307N	AY	1.00	EA	N	4.00	83209	K		.0
MTPCC 1	50119	A	00M05	O/H ACT 1433-623304	DY	1.00	EA	N	5.30	84364	A		.0
MTPCC 1	50123	A	00M05	REPLACE HARNESS SWITCH	DY	1.00	EA	N	3.00	84361	K		.0
MTPCC 1	50124	A	00M05	REPLACE HARNESS SWITCH	DY	1.00	EA	N	3.00	84361	K		.0

MTPC	RCC FAC	CTL J NO D	OPER NO	LABOR STANDARD MASTER FILE	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HOURS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS
MTPCC 1	50126 A	00M05	00M05	REPAIR SOLENOID 2633047	DY	1.00	EA	N	1.00	87055		K	.0
MTPCC 1	50127 A	00M05	00M05	REPAIR SOLENOID 2633047	DY	1.00	EA	N	1.00	87055		K	.0
MTPCC 1	50128 A	00M05	00M05	REPAIR SOLENOID 2633047	DY	1.00	EA	N	1.00	87055		K	.0
MTPCC 1	50182 A	00M05	00M05	TF41 A2 HARNESS 8898451	DY	1.00	EA	N	8.33	87187		K	.0
MTPCC 1	50191 A	00M05	00M05	REPAIR SOLENOID 2633047	DY	1.00	EA	N	1.00	87055		K	.0
MTPCC 1	50192 A	00M05	00M05	ACT TRIM MTR 184495	DY	1.00	EA	N	2.68	85290		K	.0
MTPCC 1	50192 A	00M10	00M10	HARNESS FUEL CTL 3 EA.	DY	1.00	EA	N	2.02	85298		A	.0
MTPCC 1	50197 A	00M05	00M05	REP HARNESS 714973C	DY	1.00	EA	N	.45	87133		K	.0
MTPCC 1	50202 A	00M05	00M05	CONNECTOR RESTRY SW. 520480	DY	1.00	EA	N	1.34	85352		A	.0
MTPCC 1	50247 A	00M05	00M05	O/H KC138E CSD HARNESS	DY	1.00	EA	N	2.00	86279		K	.0
MTPCC 1	50277 A	00M05	00M05	REPLACE HARNESS SWITCH	DY	1.00	EA	N	3.00	87023		K	.0
MTPCC 1	50324 A	00M05	00M05	REPAIR SOLENOID 2633047	DY	1.00	EA	N	1.00	87055		A	.0
MTPCC 1	50325 A	00M05	00M05	REPLACE HARNESS SWITCH	DY	1.00	EA	N	3.00	87224		A	.0
MTPCC 1	50363 A	00M05	00M05	OH PLA HOUSING & SWITCH	DY	1.00	EA	N	2.00	87323		A	.0
MTPCC 1	50363 G	00M05	00M05	QDR PLA SW & HSG	DY	1.00	EA	N	.50	88231		A	.0
MTPCC 1	50364 A	00M05	00M05	OH PLA HOUSING & SWITCH	DY	1.00	EA	N	2.00	87323		A	.0
MTPCC 1	50367 A	CCM05	CCM05	O/H IGNITION LEAD	DY	1.00	EA	N	1.75	87343		A	.0
MTPCC 1	50380 A	00M05	00M05	TF41 SOLENO P/N 184327	BY	1.00	EA	N	1.00	88064		A	.0
MTPCC 1	50381 A	00M05	00M05	TF41 SOLENO P/N 184327	BY	1.00	EA	N	1.00	88064		A	.0
MTPCC 1	50390 A	00M05	00M05	TF41 SOLENOID VL 184327	BY	1.00	EA	N	1.00	88112		A	.0
MTPCC 1	50391 A	00M05	00M05	TF41 SOLENOID VL 184327	BY	1.00	EA	N	1.00	88112		A	.0
MTPCC 1	50395 A	00M05	00M05	TF41 SOLENOID VL 184327	BY	1.00	EA	N	1.00	88112		K	.0
MTPCC 1	50396 A	00M05	00M05	TF41 SOLENOID VL 184327	BY	1.00	EA	N	1.00	88112		K	.0
MTPCC 1	50398 A	00M05	00M05	LEAD P/N 10-380483-1	DY	1.00	EA	N	2.68	88202		A	.0
MTPCC 1	61105 A	00M05	00M05	O/H FF TRNSM 8TJ86GM2	CT	1.00	EA	N	5.82	85045		K	.0
MTPCC 3	61105 A	00M10	00M10	TST FF TRNSM 8TJ85GM2	CT	1.00	EA	N	76	85045		K	.0

LABOR STANDARD MASTER FILE

MTPCC

RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	LAST REVIEW	STD HOURS	UNIT TYPE	A/R CD	FLOW HRS
MTPCC 1	61105 G	00M05	F/F TRANS BTJ85GHM2 201N CT	CT	1.00	EA	82044	1.20	EA N	K	.0
MTPCC 1	61111 A	00M05	OH TF41 P M GENER 6866889	BY	1.00	EA	83027	6.00	EA N	K	.0
MTPCC 1	61112 A	00M05	OH TF41 P M GENER 6889443	BY	1.00	EA	80211	6.00	EA N	K	.0
MTPCC 1	61112 G	00M05	GENERATOR 103N BY	BY	1.00	EA	81093	2.11	EA N	A	.0
MTPCC 1	61132 A	00M05	ACTUATOR 540805-2-2 304N AV	AV	1.00	EA	83074	4.22	EA N	K	.0
MTPCC 1	61132 G	00M05	ACTUATOR 540805-2-2 308N AV	AV	1.00	EA	83277	1.50	EA N	A	.0
MTPCC 1	61159 A	00M05	O/H SENSOR 548702-2-1 110N BY	BY	1.00	EA	82044	4.78	EA N	K	.0
MTPCC 1	61179 A	00M05	ACTUATOR P/N 307200 304N AV	AV	1.00	EA	83078	4.84	EA N	K	.0
MTPCC 1	61202 A	00M05	MOTOR P/N 658650-161 111N BY	BY	1.00	EA	81332	5.98	EA N	K	.0
MTPCC 1	61203 A	00M05	ACT 16782-1C 007N BY	BY	1.00	EA	80211	8.92	EA N	K	.0
MTPCC 1	61204 A	00M05	TF41 SOLEN VALVE P/N 184327 BY	BY	1.00	EA	83022	1.00	EA N	K	.0
MTPCC 1	61205 A	00M05	TF41 SOLEN VALVE P/N 184327 BY	BY	1.00	EA	83022	1.00	EA N	K	.0
MTPCC 1	61207 A	00M05	O/H FF TRAN BTJ62GBZ3 208N CT	CT	1.00	EA	82219	6.07	EA E	L	.0
MTPCC 3	61207 A	00M10	151 FF TRANSM BTJ62GBZ3	CT	1.00	EA	85045	.97	EA N	K	.0
MTPCC 1	61207 G	00M05	F/F TRANS BTJ2GBZ3 201N CT	CT	1.00	EA	82044	1.25	EA N	K	.0
MTPCC 1	61215 A	00M05	OH TF41 P M GENER 6866889	BY	1.00	EA	83027	6.00	EA N	K	.0
MTPCC 1	61240 A	00M05	REP ACTUATOR 111N BY	BY	1.00	EA	81332	8.46	EA N	K	.0
MTPCC 1	61264 A	00M05	O/H FF TRANSM BTJ62GCA3	CT	1.00	EA	85045	5.92	EA N	K	.0
MTPCC 3	61264 A	00M10	TST FF TRANSM BTJ62GCA3	CT	1.00	EA	85045	.78	EA N	K	.0
MTPCC 1	61264 G	00M05	FLOW TRANSM BTJ62GCA3 304N CT	CT	1.00	EA	83118	1.50	EA N	A	.0
MTPCC 1	61268 A	00M05	TACH-GENERATOR 6862450 301N BY	BY	1.00	EA	83022	1.44	EA N	A	.0
MTPCC 1	81035 A	CCM05	O/H IGNITION LEAD	DY	1.00	EA	87322	1.75	EA N	A	.0
MTPCC 1	93216 G	00M05	QUAL ANALYS 35940-3 009N AV	AV	1.00	EA	80281	1.50	EA N	A	.0
MTPCC 1	94041 A	00M05	ACT GRP 2 152772+1 005N AV	AV	1.00	EA	80167	2.79	EA N	K	.0
MTPCC 1	94043 A	00M05	ACTUATOR 152621 305N AV	AV	1.00	EA	80167	3.23	EA N	K	.0
MTPCC 1	94201 A	00M05	ACT GRP 1 1433-663089	AV	1.00	EA	84138	5.71	EA N	K	.0

7.01

6.48

LABOR STANDARD MASTER FILE

MTPC	RCC	FAC	CTL	J	OPER	NO	DESCRIPTION	SKILL	OCUR	UNIT	TYPE	STD	LAST	OPER	A/R	FLOW
			NO	D	NO			CODE	FACTOR	COUNT	STD	HOURS	REVIEW	IND	CD	HRS
MTPCC	1	94202	A	00M05	ACT GRP 1	1433-663069	AV	1.00	EA	N	5.71	84138	K			.0
MTPCC	1	94226	A	00M05	ACT GRP 1	1433-663089 006N	AV	1.00	EA	N	5.71	80209	K			.0
MTPCC	1	94227	A	00M05	ACTUATOR	1433-613187	AV	1.00	EA	N	5.71	84124	K			.0
MTPCC	1	95001	A	00M05	ACT	31970-8 007N	AV	1.00	EA	N	2.99	80211	K			.0
MTPCC	1	95011	A	00M05	ACT	657213 007N	AV	1.00	EA	N	5.09	82133	K			.0
MTPCC	1	95015	A	00M05	ACT	30678-17 007N	AV	1.00	EA	N	3.45	80211	K			.0
MTPCC	1	95028	A	00M05	ACTUATOR	P/N 6719 304N	AV	1.00	EA	N	3.77	83069	K			.0
MTPCC	1	95036	A	00M05	ACT	35-277A 008N	AV	1.00	EA	N	3.58	80219	K			.0
MTPCC	1	95038	G	00M05	TDR-QCI ANALYSIS		AV	1.00	EA	N	3.58	80208	J			.0
MTPCC	1	95038	A	00M05	ACTUATOR	GYLC 9102 304N	AV	1.00	EA	N	4.03	83069	K			.0
MTPCC	1	95042	A	00M05	ACT	152510 008N	AV	1.00	EA	N	4.00	80219	K			.0
MTPCC	1	95044	A	00M05	ACT	381585-8 008N	AV	1.00	EA	N	4.34	80219	K			.0
MTPCC	1	95052	A	00M05	ELECTRO MECH ACTUATOR	303N	AV	1.00	EA	N	2.79	83078	K			.0
MTPCC	1	95055	A	00M05	ACTUATOR	4369-1 304N	AV	1.00	EA	N	3.77	83069	K			.0
MTPCC	1	95056	A	00M05	ACTUATOR	541218-3-1 304N	AV	1.00	EA	N	5.18	83069	K			.0
MTPCC	1	95058	G	00M05	QCI-TDR ACT	541218-3-1 111N	AV	1.00	EA	N	2.23	81332	K			.0
MTPCC	1	95058	A	00M05	ACT GRP 1	1433-623304 005N	AV	1.00	EA	N	5.30	80167	K			.0
MTPCC	1	95062	A	00M05	ACTUATOR	54388-5-1 301N	AV	1.00	EA	N	9.02	83034	K			.0
MTPCC	1	95068	A	00M05	ACT GRP 2	540158-4-2 006N	AV	1.00	EA	N	2.79	80175	K			.0
MTPCC	1	95068	G	00M05	ACTUATOR PM	540158-4-2 204N	AV	1.00	EA	N	1.85	82105	K			.0
MTPCC	1	95075	A	00M05	ACT	54106-4-2 008N	AV	1.00	EA	N	4.11	80219	K			.0
MTPCC	1	95075	G	00M05	VALVE	P/N 321558-4-1 110M	AV	1.00	EA	N	1.50	81290	K			.0
MTPCC	1	95086	A	00M05	ACT	544060-2-1 008N	AV	1.00	EA	N	4.00	80219	K			.0
MTPCC	1	95086	G	00M05	ACTUATOR	544060-2-1 402N	AV	1.00	EA	N	1.50	84049	A			.0
MTPCC	1	95087	A	00M05	ACTUATOR	544020-12-1 301N	AV	1.00	EA	N	9.02	83034	K			.0
MTPCC	1	95088	A	00M05	ACTUATOR	544288-4-1 301N	AV	1.00	EA	N	9.02	83034	K			.0

LABOR STANDARD MASTER FILE										09/30	A-E0468-MM3-MX-290			PAGE 24
RCC FAC	CTL J NO D	OPER NO	OPERATION DESCRIPTION	SKILL CODE	OCUR FACTOR	UNIT COUNT	TYPE	STD HRS	LAST REVIEW	OPER IND	A/R CD	FLOW HRS		
MTPCC 1	95090 A	00M05	ACTUATOR	544020-18-1	301N	AV	1.00	EA	N	9.02	83034	K	.0	
MTPCC 1	95093 A	00M05	ACT	34988-24	008N	AV	1.00	EA	N	3.88	80219	K	.0	
MTPCC 1	95097 A	00M05	ACTUATOR	541078-3-1	304N	AV	1.00	EA	N	4.22	83068	K	.0	
MTPCC 1	95101 A	00M05	ACTUATOR	544014-9-2	301N	AV	1.00	EA	N	9.31	83027	K	.0	
MTPCC 1	95103 A	00M05	ACT	2295A0	008N	AV	1.00	EA	N	4.67	80219	K	.0	
MTPCC 1	95104 A	00M05	ACTUATOR	P/N C10040		AV	1.00	EA	E	5.23	84119	K	.0	
MTPCC 1	95108 A	00M05	ACT	541216-1-1	008N	AV	1.00	EA	N	4.48	80219	K	.0	
MTPCC 1	95108 G	00M05	ACTUATOR	541216-1-1	308N	AV	1.00	EA	N	1.50	83244	A	.0	
MTPCC 1	95109 A	00M05	ACT	541078-4-2	008N	AV	1.00	EA	N	6.78	80219	K	.0	
MTPCC 1	95109 G	00M05	ACTUATOR	541078-4-2	403N	AV	1.00	EA	N	1.50	84080	A	.0	
MTPCC 1	95110 A	00M05	ACTUATOR	540906-2-2	302N	AV	1.00	EA	N	4.22	83050	K	.0	
MTPCC 1	95111 A	00M05	ACTUATOR	544014-8-1	301N	AV	1.00	EA	N	9.31	83034	K	.0	
MTPCC 1	95131 A	00M05	ACTUATOR	541214-1-2	304N	AV	1.00	EA	N	4.22	83068	K	.0	
MTPCC 1	95131 G	00M05	QCT-TDR ACT	541214-1-2	004N	AV	1.00	EA	N	2.00	89167	A	.0	
MTPCC 1	95133 A	00M05	ACTUATOR	544014-9-1	301N	AV	1.00	EA	N	9.31	83034	K	.0	
MTPCC 1	95144 A	00M05	ACTUATOR	GYLC 8102	304N	AV	1.00	EA	N	4.03	83068	K	.0	
MTPCC 1	95148 A	00M05	ACTUATOR	P/N 2295A0	804N	AV	1.00	EA	N	4.70	80219	K	.0	
MTPCC 1	95150 A	00M05	ACTUATOR	P/N 4369-1	302N	AV	1.00	EA	N	3.77	83057	K	.0	
MTPCC 1	95151 A	00M05	ACTUATOR	P/N 4396-1	304N	AV	1.00	EA	N	3.77	83068	K	.0	
MTPCC 1	95180 A	00M05	ACT	31974-4	008N	AV	1.00	EA	N	6.40	80219	K	.0	
MTPCC 1	95188 A	00M05	ACTUATOR	09C00	304N	AV	1.00	EA	N	4.84	83078	K	.0	
MTPCC 1	95201 A	00M05	ACTUATOR	701300	304N	AV	1.00	EA	N	4.84	83078	K	.0	
MTPCC 1	95234 A	00M05	ACT	31970-6	008N	AV	1.00	EA	N	2.99	80219	K	.0	
MTPCC 1	95234 G	00M05	QUAL ACTUATOR		111N	AV	1.00	EA	N	2.00	81332	K	.0	
MTPCC 1	95263 A	00M05	ACT	541368-1	008N	AV	1.00	EA	N	4.15	80219	K	.0	
MTPCC 1	95263 G	00M05	QUAL ANAL	541368-1-1	011N	AV	1.00	EA	N	2.00	80339	A	.0	

APPENDIX B

EARNED HOURS REPORT,
PROJECTED, 1988

79,991

A-E046B-M20-LS-1

0001 A-E046B-M20-LS-1

DATE REVMD

10/17/88

AS OF

PROJ UNITS

PAGE NR

ANNUAL DPSH

ANNUAL REVMD

RCC	PROJECTED ANNUAL C/NR J/D	OPER NR	HOURS	R C C S E Q U E N C E	AS OF	PROJ UNITS	ANNUAL DPSH	PAGE NR	DATE REVMD
				TYPE/STD	10/17/88				
MTPCC	34084	A	00M05	E	8.66	565	3,310.80	4124	
MTPCC	40289	A	00M05	E	8.11	341	2,765.51	2233	
MTPCC	35110	A	00M05	N	19.59	121	2,546.70	0209	
MTPCC	32706	A	00M05	N	18.38	121	2,223.98	1140	
MTPCC	35362	A	00M05	E	7.48	257	2,146.76	2231	
MTPCC	35362	A	00M05	E	9.35	219	2,047.65	3052	
MTPCC	35362	A	00M05	E	9.35	219	1,988.18	2219	
MTPCC	37207	A	00M05	E	8.02	254	1,876.68	3057	
MTPCC	37649	A	00M05	E	4.35	428	1,866.08	4147	
MTPCC	34312	A	00M05	E	5.13	333	1,708.29	8210	
MTPCC	35104	A	00M05	E	6.24	312	1,634.88	4119	
MTPCC	45582	A	00M05	E	6.08	266	1,495.68	2219	
MTPCC	45582	A	00M05	E	2.80	531	1,486.80	3078	
MTPCC	45387	A	00M05	E	4.31	344	1,482.94	2231	
MTPCC	48451	A	00M05	E	4.31	301	1,287.31	2231	
MTPCC	34227	A	00M05	N	5.71	216	1,233.36	4124	
MTPCC	34227	A	00M05	N	5.71	206	1,176.26	8183	
MTPCC	35131	A	00M05	N	4.23	250	1,057.50	3069	
MTPCC	35264	A	00M05	N	5.71	184	1,050.64	4138	
MTPCC	35264	A	00M05	N	3.42	170	1,006.40	5045	
MTPCC	35105	A	00M05	N	6.33	105	874.66	6223	
MTPCC	35105	A	00M05	N	5.50	150	839.16	2044	
MTPCC	35743	A	00M05	N	6.92	155	825.00	8187	
MTPCC	35602	A	00M05	N	6.48	155	812.16	0167	
MTPCC	35097	A	00M05	N	8.92	88	793.88	1332	
MTPCC	48563	A	00M05	E	6.08	120	729.60	2231	
MTPCC	34549	A	00M05	E	5.00	141	705.00	2044	
MTPCC	48371	A	00M05	E	6.08	114	693.12	2219	
MTPCC	48561	A	00M05	E	6.08	107	650.56	2231	
MTPCC	38666	A	00M05	E	3.53	183	645.39	4124	
MTPCC	34055	A	00M05	E	1.96	54	645.84	5197	
MTPCC	34103	A	00M05	N	6.00	105	630.00	0208	
MTPCC	35108	A	00M05	E	4.48	136	606.56	0219	
MTPCC	35664	A	00M05	E	3.90	154	600.60	4124	
MTPCC	61111	A	00M05	E	6.00	90	540.00	3027	
MTPCC	34333	A	00M05	E	2.80	196	520.80	0208	
MTPCC	34181	A	00M05	N	8.82	57	502.74	2184	
MTPCC	34333	A	00M05	E	3.45	145	500.25	2184	
MTPCC	34333	A	00M05	E	4.84	144	496.80	0167	
MTPCC	34327	A	00M05	N	5.71	100	484.00	3078	
MTPCC	35011	A	00M05	N	2.30	84	479.64	0209	
MTPCC	35022	A	00M05	N	4.50	208	478.40	0209	
MTPCC	35038	A	00M05	N	4.00	105	472.50	8183	
MTPCC	35133	A	00M05	N	4.03	115	459.42	0219	
MTPCC	35133	A	00M05	N	9.31	48	446.88	3034	
MTPCC	35111	A	00M05	E	2.26	198	438.78	3309	
MTPCC	35124	A	00M05	N	3.30	134	409.64	3034	
MTPCC	61132	A	00M05	N	4.23	95	402.00	4361	
MTPCC	61132	A	00M05	N	4.23	95	401.85	3074	

ACC	PROJECTED ANNUAL EARNED HOURS OPER NR	C/NR J/D	TYPE/STD	R C S E Q U E N C E . . . OF STD HRS	OF PROJ UNITS	10/17/88	ANNUAL DPSH	PAGE NR 0002 DATE REVMD
MTPCC	94226 A	00M05	N	5 71	67		382.57	0209
MTPCC	38597 A	00M05	E	2.22	171		378.62	3309
MTPCC	34187 A	00M05	N	4.70	80		376.00	1327
MTPCC	80275 A	00M05	N	4.11	91		374.01	0219
MTPCC	50277 A	00M05	N	3.00	121		363.00	7023
MTPCC	95011 A	00M05	N	5.09	59		351.21	2133
MTPCC	42009 A	00M10	E	1.00	341		341.00	2280
MTPCC	95332 A	00M05	N	2.80	120		336.00	0175
MTPCC	34149 A	00M05	N	3.45	95		327.75	1327
MTPCC	61207 A	00M10	N	3.97	327		317.19	5045
MTPCC	34164 A	00M05	N	3.45	90		310.00	1327
MTPCC	38698 A	00M05	N	2.17	142		308.14	7211
MTPCC	34356 A	00M05	E	3.71	83		307.93	1327
MTPCC	34522 A	00M05	N	5.42	55		298.10	0167
MTPCC	95101 A	00M05	N	9.31	32		297.92	3027
MTPCC	23307 A	00M51	N	4.30	67		288.10	1015
MTPCC	95036 A	00M05	N	3.58	80		286.40	0219
MTPCC	95110 A	00M05	N	4.23	67		283.41	3050
MTPCC	23111 A	00M5	N	5.36	52		278.72	5319
MTPCC	48362 A	00M10	N	5.97	287		278.39	5045
MTPCC	31798 A	00M05	N	3.24	84		272.16	0167
MTPCC	95304 A	00M05	N	2.76	64		270.72	3059
MTPCC	27914 A	00M70	N	2.76	98		270.48	8182
MTPCC	23307 A	00M50	N	4.02	67		269.34	1137
MTPCC	95180 A	00M05	N	6.40	42		268.80	0219
MTPCC	95331 A	00M05	N	2.80	96		268.80	0175
MTPCC	30046 A	00M05	N	2.95	266		263.34	0209
MTPCC	94043 A	00M05	N	3.24	81		262.44	0167
MTPCC	45387 A	00M10	N	3.76	344		261.44	5045
MTPCC	95148 A	00M05	N	1.40	55		258.50	0219
MTPCC	38668 A	00M05	N	4.70	173		242.20	2018
MTPCC	49530 A	00M05	N	5.92	40		236.80	5045
MTPCC	49532 A	00M05	N	5.92	40		234.78	2231
MTPCC	48451 A	00M10	E	2.78	301		230.00	5297
MTPCC	23111 B	00M69	N	2.50	92		222.00	1022
MTPCC	25743 A	00M56	N	1.48	150		222.00	1022
MTPCC	34107 A	00M57	N	1.48	150		221.10	0158
MTPCC	49238 A	00M05	N	4.23	134		219.96	3074
MTPCC	95109 A	00M05	N	6.78	32		216.96	0219
MTPCC	38701 A	00M05	N	2.75	74		203.50	3027
MTPCC	30033 A	00M10	N	2.70	288		201.60	2247
MTPCC	23111 A	00M52	N	3.87	52		201.24	5319
MTPCC	23313 A	00M52	N	3.87	52		201.24	5319
MTPCC	23313 A	00M12	N	1.86	105		195.30	6256
MTPCC	23109 B	00M50	N	1.86	105		195.30	6256
MTPCC	49582 A	00M69	N	2.50	75		187.50	5297
MTPCC	95056 A	00M10	N	2.76	246		186.96	5045
MTPCC	50192 A	00M05	N	8.19	36		186.84	3068
MTPCC	31281 A	00M05	N	2.66	70		186.20	3015
MTPCC	95150 A	00M05	N	7.24	24		173.76	3015
MTPCC	95150 A	00M05	N	3.78	45		170.10	3057

RCC	PROJECTED ANNUAL EARNED HOURS OPER NR	R C C S E Q U E N C E A - OF 10/17/88	ANNUAL DPSH	PAGE NR	DATE REVMD
MTPCC	95068 A	N	2 80	86.80	0175
MTPCC	23103 A	N	4 30	81.70	4361
MTPCC	49585 A	N	9 02	81.18	3034
MTPCC	95087 A	N	9 02	80.85	3034
MTPCC	23313 A	N	77	80.85	6256
MTPCC	24101 A	N	77	80.85	6190
MTPCC	24101 A	N	77	80.85	6191
MTPCC	95144 A	N	105	80.85	3069
MTPCC	50202 A	N	20	80.80	5352
MTPCC	55019 A	N	4 34	80.40	3078
MTPCC	27918 A	E	8 02	80.20	8122
MTPCC	23103 A	N	2 76	80.04	4361
MTPCC	23109 A	N	4 20	79.80	4361
MTPCC	24101 A	N	4 30	77.40	4361
MTPCC	23109 A	N	4 33	76.85	4361
MTPCC	95055 A	N	3 78	75.60	4361
MTPCC	24101 A	N	4 20	74.55	3069
MTPCC	34148 A	N	71	72.96	6220
MTPCC	95088 A	N	96	72.16	0198
MTPCC	24101 A	N	9 02	71.40	3034
MTPCC	28024 A	N	1 00	70.00	1259
MTPCC	49705 A	N	5 80	69.60	2030
MTPCC	35508 A	N	3 47	69.00	0209
MTPCC	24101 A	N	6 25	68.75	6223
MTPCC	23307 A	N	1 01	67.67	2044
MTPCC	23307 A	N	1 01	67.67	2044
MTPCC	43389 A	N	1 01	67.20	6045
MTPCC	98217 A	N	4 20	65.92	0219
MTPCC	37713 A	N	4 12	65.00	0209
MTPCC	50127 A	N	1 00	65.00	7055
MTPCC	59878 A	N	3 24	64.80	0211
MTPCC	24179 A	N	1 52	62.52	1292
MTPCC	95234 A	N	2 99	59.80	0219
MTPCC	50197 A	N	4 5	56.70	7133
MTPCC	29412 A	N	1 00	56.00	1259
MTPCC	27914 A	N	6 00	55.86	3176
MTPCC	61215 A	N	5 5	54.00	3027
MTPCC	27914 A	N	5 5	53.80	3176
MTPCC	27914 A	N	5 5	53.80	3176
MTPCC	27914 A	N	5 4	52.92	3176
MTPCC	23107 B	N	2 50	52.50	5297
MTPCC	23107 B	N	2 50	52.50	5297
MTPCC	23111 A	N	1 00	52.00	6139
MTPCC	23111 A	N	1 00	52.00	6139
MTPCC	27914 A	N	4 23	51.94	7055
MTPCC	95097 A	N	50	50.76	3178
MTPCC	27914 A	N	50	49.00	3069
MTPCC	27914 A	N	50	49.00	3176
MTPCC	48531 A	N	5 92	47.38	5045
MTPCC	27914 A	N	4 47	47.04	3176
MTPCC	27914 A	N	4 47	46.08	3176
MTPCC	23111 B	N	6 0	46.00	4105

RCC	PROJECTED ANNUAL C/NR J/D	ANNUAL EARNED HOURS OPER NR	R C C S E Q U E N C E A S OF 10/17/88	PROJ UNITS	ANNUAL DSSH	PAGE NR	0005
			TYPE/STD	STD HRS		DATE	REVWD
MTPCC	98223 A	00M05	N	1 00	46.00	0219	
MTPCC	97259 A	00M05	N	1 01	45.05	3034	
MTPCC	94041 A	00M05	N	2 80	44.80	0167	
MTPCC	27917 A	00M70	N	2 76	44.16	8182	
MTPCC	27914 A	00M55	N	4 45	44.10	3176	
MTPCC	24402 A	00M70	N	8 33	41.65	7266	
MTPCC	95253 A	00M35	N	4 15	41.50	0219	
MTPCC	49630 A	00M10	N	1 03	41.20	5045	
MTPCC	23111 A	00M70	N	1 03	38.48	5337	
MTPCC	29412 A	00M50	K	68	38.08	6377	
MTPCC	23305 A	00M53	N	4 21	37.89	1015	
MTPCC	23305 A	00M54	N	4 21	37.89	1015	
MTPCC	25743 A	00M69	N	150	37.50	1022	
MTPCC	50324 A	00M05	N	1 00	37.00	7055	
MTPCC	50380 A	00M05	N	1 00	37.00	8064	
MTPCC	38667 A	00M05	E	3 53	35.30	4147	
MTPCC	50128 A	00M05	N	1 00	35.00	7055	
MTPCC	49542 A	00M05	N	8 33	33.32	7187	
MTPCC	49542 A	00M05	E	3 53	32.60	0167	
MTPCC	38562 A	00M05	N	3 78	31.77	4124	
MTPCC	31288 A	00M05	N	3 78	30.24	3078	
MTPCC	49280 A	00M05	N	4 23	29.61	3078	
MTPCC	29043 A	00M05	N	1 00	28.00	1259	
MTPCC	49816 A	00M05	N	3 50	28.00	1259	
MTPCC	50398 A	00M05	N	2 25	28.00	8202	
MTPCC	24101 A	00M69	N	2 25	28.25	1017	
MTPCC	23307 A	00M69	N	34	22.78	1137	
MTPCC	27919 A	00M70	N	2 75	22.00	8182	
MTPCC	49420 A	00M10	N	2 59	20.72	1140	
MTPCC	44447 A	00M05	N	1 03	20.60	5045	
MTPCC	61150 A	00M05	N	4 76	19.04	2044	
MTPCC	24402 B	00M70	N	2 10	18.90	7272	
MTPCC	23305 A	00M51	N	2 06	18.50	1017	
MTPCC	98422 A	00M05	N	1 00	18.54	7113	
MTPCC	98423 A	00M05	N	1 00	18.00	3013	
MTPCC	27918 A	00M60	N	1 00	17.00	3013	
MTPCC	61105 A	00M10	N	57	16.53	3087	
MTPCC	27918 A	00M25	N	76	15.96	8045	
MTPCC	27918 A	00M50	N	55	15.95	3187	
MTPCC	35356 A	00M05	N	3 92	15.68	0209	
MTPCC	27918 A	00M35	N	54	15.68	3187	
MTPCC	27918 A	00M05	N	3 88	15.52	0219	
MTPCC	27918 A	00M40	N	53	15.37	3187	
MTPCC	27918 A	00M22	N	50	14.50	3239	
MTPCC	27918 A	00M65	N	50	14.50	3187	
MTPCC	27918 A	00M75	N	50	14.50	3187	
MTPCC	34146 A	00M05	N	7 20	14.40	2044	
MTPCC	39614 A	00M05	N	2 81	14.05	0211	
MTPCC	27919 A	00M45	N	2 48	13.92	3187	
MTPCC	27915 A	00M70	N	2 78	13.80	8182	

RCC	C/NR	J/D	OPER NR	RCC	S	E	Q	U	E	M	C	E	N	JF	10/17/88	ANNUAL DPSH	PAGE NR	0006	A-E046B-M20-LS	DATE REVWD
MTPCC	27918	A	00M30	N					47					29	13.63	3187				
MTPCC	27918	A	00M55	N					.45					29	13.05	3187				
MTPCC	27918	A	00M80	N					.45					29	13.05	3187				
MTPCC	49720	A	00M05	N					02					632	12.64	1327				
MTPCC	23302	A	00M53	N					4	21				3	12.63	6336				
MTPCC	23302	A	00M54	N					4	21				3	12.63	6336				
MTPCC	23305	A	00M50	N					1	36				9	12.24	1015				
MTPCC	23305	A	00M05	N					4	0H				3	12.24	1339				
MTPCC	49228	A	00M10	N					4	76				16	12.16	5045				
MTPCC	45389	A	00M05	N					3	92				3	11.76	0208				
MTPCC	23107	A	00M53	N					1	00				28	11.20	4361				
MTPCC	61204	A	00M05	N					1	00				11	11.00	3022				
MTPCC	61205	A	00M08	N					1	00				11	11.00	3022				
MTPCC	27917	A	00M28	N					57					16	9.12	1301				
MTPCC	27917	A	00M50	N					55					16	8.80	1290				
MTPCC	27917	A	00M39	N					55					16	8.80	1290				
MTPCC	61268	A	00M05	N					54					16	8.64	1290				
MTPCC	27917	A	00M05	N					1	44				6	8.54	3022				
MTPCC	27917	A	00M40	N					53					6	8.46	1290				
MTPCC	23305	A	00M52	N					1	93				8	8.24	1015				
MTPCC	49531	A	00M10	N					1	03				8	8.24	5045				
MTPCC	24101	B	00M74	N					1	73				11	8.03	6139				
MTPCC	27917	A	00M22	N					50					16	8.00	3104				
MTPCC	27917	A	00M65	N					50					16	8.00	1315				
MTPCC	27917	A	00M75	N					50					16	8.00	1315				
MTPCC	95042	A	00M05	N					4	00				2	8.00	0219				
MTPCC	27917	A	00M45	N					40					16	7.68	1290				
MTPCC	23103	A	00M53	N					40					19	7.60	4361				
MTPCC	27917	A	00M30	N					47					16	7.52	1290				
MTPCC	24101	B	00M68	N					68					11	7.48	6212				
MTPCC	24101	B	00M78	N					68					11	7.48	6192				
MTPCC	23109	A	00M53	N					40					18	7.20	4361				
MTPCC	27917	A	00M55	N					45					16	7.20	1290				
MTPCC	27917	A	00M80	N					45					16	7.20	1290				
MTPCC	50396	A	00M35	N					1	00				7	7.00	5112				
MTPCC	24402	B	00M10	N					75					9	6.75	7273				
MTPCC	24101	B	00M78	N					52					11	6.38	8190				
MTPCC	23305	A	00M77	N					58					11	6.12	6191				
MTPCC	24402	B	00M51	N					68					9	6.12	1015				
MTPCC	24402	B	00M58	N					68					9	6.12	7273				
MTPCC	24402	B	00M78	N					68					9	6.12	7273				
MTPCC	24101	B	00M67	N					55					11	6.05	6209				
MTPCC	24101	B	00M66	N					55					11	6.05	6220				
MTPCC	24101	B	00M75	N					53					11	5.83	6190				
MTPCC	24402	B	00M78	N					51					11	5.61	7273				
MTPCC	24402	B	00M77	N					58					9	5.22	7273				
MTPCC	23309	A	00M69	N					25					20	5.00	1017				
MTPCC	24402	B	00M10	N					1	00				5	5.00	7256				
MTPCC	24402	B	00M87	N					55					9	4.95	7273				
MTPCC	24402	B	00M74	N					98					5	4.90	7267				
MTPCC	95201	A	00M05	N					4	84				1	4.84	3078				
MTPCC	24402	B	00M66	N					53					9	4.77	7273				

RCC	PROJECTED ANNUAL EARNED HOURS	R C C S E Q U E N C E	OF	10/17/BB	PAGE NR	DATE	REVW
C/NR J/D	OPER NR	TYPE/STD	PROJ UNITS	ANNUAL	DPSH	NR	LS
MTGCC	24402 B	N	8	4.59	7278		
MTGCC	27910 A	N	5	4.56	3187		
MTGCC	24402 A	N	5	4.50	7266		
MTGCC	24402 A	N	5	4.50	7267		
MTGCC	27919 A	N	8	4.40	3187		
MTGCC	27919 A	N	8	4.40	3187		
MTGCC	30057 A	N	72	4.32	3187		
MTGCC	27919 A	N	8	4.24	1140		
MTGCC	24101 B	N	11	4.18	3187		
MTGCC	23302 A	N	11	4.18	6139		
MTGCC	27919 A	N	3	4.08	8012		
MTGCC	27919 A	N	8	4.00	6336		
MTGCC	27919 A	N	8	4.00	3239		
MTGCC	27919 A	N	8	4.00	3187		
MTGCC	27919 A	N	8	4.00	3187		
MTGCC	27919 A	N	5	3.85	7267		
MTGCC	27919 A	N	5	3.85	7267		
MTGCC	24402 A	N	8	3.84	3187		
MTGCC	27919 A	N	8	3.76	3187		
MTGCC	27919 A	N	4	3.72	1017		
MTGCC	23309 B	N	5	3.65	7266		
MTGCC	24402 A	N	8	3.60	3187		
MTGCC	27919 A	N	8	3.60	3187		
MTGCC	27919 A	N	5	3.55	7265		
MTGCC	24402 A	N	1	3.50	1350		
MTGCC	49802 A	N	9	3.42	7278		
MTGCC	24402 B	N	2	3.40	7267		
MTGCC	24402 A	N	2	3.25	1022		
MTGCC	25743 B	N	2	2.85	1301		
MTGCC	27915 A	N	2	2.79	6322		
MTGCC	23302 A	N	2	2.78	1280		
MTGCC	27915 A	N	2	2.75	1280		
MTGCC	27915 A	N	2	2.72	1017		
MTGCC	23309 B	N	4	2.70	1301		
MTGCC	27915 A	N	2	2.65	1290		
MTGCC	24402 A	N	2	2.50	7267		
MTGCC	27915 A	N	2	2.50	1301		
MTGCC	27915 A	N	2	2.50	1315		
MTGCC	27915 A	N	2	2.40	1315		
MTGCC	27915 A	N	2	2.35	1290		
MTGCC	23305 A	N	2	2.25	1015		
MTGCC	23305 A	N	2	2.25	1290		
MTGCC	24101 B	N	1	2.08	1332		
MTGCC	23305 B	N	1	2.06	2051		
MTGCC	23305 B	N	1	1.88	1015		
MTGCC	23305 B	N	1	1.00	1017		
MTGCC	23309 B	N	1	.77	1015		
MTGCC	23305 B	N	14	.42	0211		
MTGCC	23305 B	N	1	.34	1015		
MTGCC	23305 B	N	1	.27	1015		
MTGCC	27915 B	N	1	.25	3239		

RCC
 PROJECTED ANNUAL EARNED HOURS
 C/NR J/D OPER NR
 R C C S E Q U E M C E AS OF 10/17/88 ANNUAL DFSH PAGE NR 0008 DATE REVWD A-E046B-M20-LS-VF

RCC	C/NR	J/D	OPER NR	R	C	C	S	E	Q	U	E	M	C	E	AS OF	10/17/88	ANNUAL DFSH	PAGE NR	0008	DATE	REVWD
				TYPE/STD						STD	HRS					UNITS					
MTPCC	23305	S	CCM50	N						22						1	.22	22		1015	
MTPCC	27918	B	00M80	N						.05						1	.05	.05		3176	
MTPCC	27918	B	00K7J	N						.03						1	.03	.03		3176	
MTPCC	27918	B	00M15	N						.03						1	.03	.03		3176	
MTPCC	27918	B	00M40	N						.03						1	.03	.03		3176	
MTPCC	27918	B	00M50	N						.03						1	.03	.03		3176	
MTPCC	27918	B	00M60	N						.03						1	.03	.03		3176	
MTPCC	27918	B	00M65	N						.03						1	.03	.03		3176	
MTPCC	27918	B	00M70	N						.03						1	.03	.03		8182	
MTPCC	27918	B	00M75	N						.03						1	.03	.03		3176	
MTPCC	27918	B	00M30	N						.02						1	.02	.02		3211	
MTPCC	27918	B	00M46	N						.02						1	.02	.02		3176	
MTPCC	27918	B	00M56	N						.02						1	.02	.02		3176	
MTPCC																TOTAL	79,991.27				

MTPCC

E = 27,251.12

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PERSONAL DATA - PRIVACY ACT OF 1974 (PL93-579) FOR OFFICIAL USE ONLY
 DATE 10-30-88 A-G037G-G61-D2-MG6 PG 563

ACFCM (2) MATPCG (2) RCC TOTAL LABOR ASSIGNMENT REPORT
 RCC: MATPOG FOREMAN CODE: C4

EMPLOYEE NAME	IDENT	MO	DO	SK	DO	SH	SP	STATUS	RCC	DO	SK	DO	FC	SH	SP	EFF DATE	TERM DATE	J-O-N
ARMOLD LEONARD M	447221774	C	11	CT	11	1	1	LOANED TO	MATPAA	11	QP	1	A3	1	1	88292	88366	
CHRCHSTER EVERET	448644568	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
DUVALL BETTY L	44285487	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
GREEN JAN E	44262188	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
LOGAN EMELL C	405147187	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
LYLE WATHY	440585528	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
MORREY W K	44238277	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
MORROW ANNE	447504468	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
MORROW MARVIN	441240718	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
PHILLIPS DAVID M	443582819	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
SMITH CHRISTIE	448768829	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
TAMMY L HASSELL	443628828	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
WESLEY ABIGAIL	440501448	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
WEST THOMAS J	444468364	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	
WHEELER PALMER	444328283	C	11	CT	11	1	1	LOANED TO	MATPAA	11	EP	1	A4	1	1	88292	88366	

-----CURRENT ASSIGNMENT-----> <-----LOAN STATUS INFORMATION----->

DUTY CODE TOTALS:

PERSONNEL ASSIGNED 15
 PERSONNEL BORROWED 0
 PERSONNEL LOANED 4
 NET STRENGTH 11

F/C TOTAL: NET STRENGTH 11

ACFCM (2) MATPOC (2) RCC TOTAL LABOR ASSIGNMENT REPORT
 RCC CODE: G3

-----CURRENT ASSIGNMENT-----> <-----LOAN STATUS INFORMATION----->

EMPLOYEE NAME	IDENT	MC	DC	SK	NO	SH	SP	STATUS	RCC	DC	SK	DO	FC	SH	SP	EFF DATE	TERM DATE	J-O-N	
STEWART JIMMY J	448702831	C	11	AV	1	1	1	LOANED TO	MATPIP	11	BU	1	P3	1		88292	88322		
BYNUM TERRY J	443508241	C	11	BY	1	1	1												
CLEMENTS THOMAS E	446548704	C	11	BY	1	1	1												
FOSTER LENNIE L	443600047	C	11	BY	1	1	1												
FRANKS CHARLES L	441468432	C	11	BY	1	1	1												
GARLAND KENNETH W	448667417	C	11	BY	1	1	1												
HAWKINS PAMELA	440444713	C	11	BY	1	1	1												
HENKINS MARYLYN A	443542313	C	11	BY	1	1	1												
MCKEE MARYLYNE I	457921470	C	11	BY	1	1	1												
MOORE CHARLES E	453567291	C	11	BY	1	1	1												
MOORE TERRY H	442588250	C	11	BY	1	1	1												
MOULIN GAY C	444440273	C	11	BY	1	1	1												
NUMM VICKI L	446801888	C	11	BY	1	1	1												
SHAFER MAX D	442368324	C	11	BY	1	1	1												
TALLEY BOBBY G	448380944	C	11	BY	1	1	1												
WIEBELMAN DORTHY	447443324	C	11	BY	1	1	1												
WINEINGER MARY F	460381512	C	11	BY	1	1	1												

DUTY CODE TOTALS: PERSONNEL ASSIGNED 17
 PERSONNEL BORROWED 0
 PERSONNEL LOANED 1
 NET STRENGTH 16

COLLINS FLOYD H 444701877 C 14 BY 1 1
 DUTY CODE TOTALS: PERSONNEL ASSIGNED 1
 PERSONNEL BORROWED 0
 PERSONNEL LOANED 0
 NET STRENGTH 1

F/C TOTAL: NET STRENGTH 17

ACFCM (2) MATPOC (2) RCC TOTAL LABOR ASSIGNMENT REPORT
 RCC: MATPOC FOREMAN CODE: C2

<-----CURRENT ASSIGNMENT-----> <-----LOAN STATUS INFORMATION----->

EMPLOYEE NAME	IDENT	MC	DO	SK	DO	SH	SP	STATUS	RCC	DC	SK	DO	FC	SH	SP	EFF DATE	TERM DATE	J-O-N	
COLBRY RONNIE H	448347042	C	11	AV	1	1	1												
FRIEND LYNN W	447444391	C	11	AV	1	1	1												
GARRIOT CURTIS	447524453	C	11	AV	1	1	1												
GENZER NORMA J	440380644	C	11	AV	1	1	1												
HARRIS VICKI J	444692373	C	11	AV	1	1	1												
HUTSON DON	442440767	C	11	AV	1	1	1												
ISAAC KENNETH D	440388233	C	11	AV	1	1	1												
KONOPIMSKI SHERRY	455807377	C	11	AV	1	1	1												
LOGAN SUSAN D	444629396	C	11	AV	1	1	1												
MATHEWS BRUCE	442607857	C	11	AV	1	1	1												
MEANS WILLIAM B	447268431	C	11	AV	1	1	1												
MONROE GUINDA F	440588309	C	11	AV	1	1	1												
MONROE SUE A	448506601	C	11	AV	1	1	1												
SKINNER ROBERT G	448464488	C	11	AV	1	1	1												
STARY CHARLOTTE A	441426834	C	11	AV	1	1	1												
HOLDERMAN TERRY	447581005	C	11	BY	1	1	1												

DUTY CODE TOTALS:
 PERSONNEL ASSIGNED 16
 PERSONNEL BORROWED 0
 PERSONNEL LOANED 0
 NET STRENGTH 16

F/C TOTAL NET STRENGTH 16

913.0

APPENDIX C

ENGINEERING NOTES: POTENTIAL
IMPROVEMENT OPPORTUNITIES

PIO #

ENGINEERING NOTES

DATE

RCC

CC #4
CONT

SPP. NJ PA 532 440-1
ISSN 5360003792469

MATPC

wrong size spring causes damage to gear & gear shaft \$180.00

CC #5

³⁻¹⁵⁻⁸⁹ PCN 30033A PN 54552 routed from CSD shop
& PCN 34107A PN 54552 from supply
require a thermo test in oil.
The operator places the switch in oil at 275 to 300 then waits 35 to 45 minutes until switch turns on between 330 to 350. The heater is turned off and again the operator waits 90 to 15 minutes until the switch turns off. must be by 300. If there is a doubt on either limit the switch is again run through the cycle.

On a good day the operator can test: 9 cables. On a bad one only three or four.

The equipment P92418 was made here. It contains 6 qts of oil that must be heated & allowed to cool. It also uses panel light to signal on & off.

Suggested improvements: 1) reduce size of oil container to 1 qt. or less. 2) attach "on" light to buzzer 3) develop equipment so that multiple cables could be tested during cycle.

Savings: reducing waiting is reduced by 1/2 = .4 hrs/unit or 87 hrs/year.

30033A - 20/3 quarter - 80 hrs/yr
34107A - 20/3 quarter - 120 hrs/yr

IO # DATE

5-1-89

M/S

fuel flow transmitters operators knowable
 1 - They usually work the same units
 unless others become hot.

Most operators work one one unit
 at a time except for problems or
 a special requirement.

The operator that is to give my
 information is extremely fast
 and has trouble giving time
 it would take one operator to
 do same work. Supervisor
 agreed.

Torque meter tester out of kilter.
 Can not start at 0 and get a good
 reading. Has been checked and
 is "Good" - Start past zero.

Unit is to be getting ⁽²⁾ new test
 stands to replace the (5) units
 now in 3801. The current
 test stands only test certain units
 and are inefficient. The new ones
 are supposed to be universal and
 faster.

Fuel flow 9. ~~10~~
 Actuators 9. ~~10~~

PIO #	DATE	ENGINEERING NOTES	RCC
CC # 2	5-2-88	<p>Black Out need means of securing compensator block. operator from fuel flow area have been aware of problem for some time but could not any one to take action.</p> <p>Recently a loose compensator block caused a big problem. The block move enough so the valve was blocked. The fuel could not be turned off.</p> <p>Checked new from supply 9 or 12 were loose. Problem given back to vendor.</p> <p>REF - MAC McCREIGHT</p>	CC
CC # 3	5-3	<p>Parts removed from system</p> <p>Example of problem caused by bad vendor part.</p> <p>shop received bad ring magnets (vendor part) they were not magnetized and the unit does not have equipment to do so. Parts were not purged from stock. as bad ones come in they are put aside and another one ordered.</p> <p>ASK UNIT ABOUT THIS.</p> <p>no longer a problem 5-17-89</p>	CC
CC # 4		<p>Springs coming in out of spick - too strong long</p>	CC

PIO #	DATE	RCC
Info	<p>operator (2) from test come over from 3801. They return units from test. They give each operator's their rejected units and talk to them about why. They pick up completed units from the Tube - goes back to 3801. Stated it took two because of moving cart through doors</p> <p>need sketch of Areas involved</p>	RCC MATF
Info	<p>New Mfg effort is coming into MATPCC.</p> <p>estimated - 275,000 hrs over 4 years 55 new people</p> <p>= 68750 HRS/yr = 33 - 40 hrs wks/yr or at 70% 47 people.</p> <p>need direction as to what to do with this new effort.</p> <p>Current MP = 65 people. New effort almost equal to current effort.</p> <p>MATPCC is to move to new area in the fall. Area now occupied by Blades.</p>	
	<p>5-3</p> <p>Special hand tools are kept in cabinets. They are unlocked during the day. The operator is to put his Tool Check in cabinet when he uses the tool</p>	

PIO #	DATE	NOTES	PCC
-------	------	-------	-----

Actuator control ^{the} flow - Most are removed from valves at 210. They come to MAT PCC on carts. The operator "Pac" then processes them by attaching WCB and placing on proper shelf. The same operator "completes" units when they are ready to go back to 210.

MAT PCC
ACTUATOR:

Some actuators come from supply

5-8-89

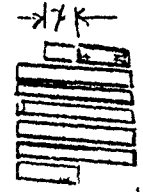
Some actuators are from supply - others routed (as above). Same part but different PCN depended on Routed - 11. etc

	<u>Routed</u>	<u>ILLSTR.</u>
Valve	94 227	34522
	94 230	34512

5-8-89

CC # 4
(ARROW)

Vendor springs required in slip-clutch type actuators are too long by from $\frac{1}{32}$ to $\frac{3}{16}$ as shown by "7". Supervisor thought they had all been UK's but there was about 12 in parts box. Vendor agreed it was too long but it will be a long time before new ones are due. Tried having end cut back to size - but was done badly - lost temper, wrong shape edge of spring.



Prob could shut down 10 PCNs.

- 95133 49555 95087
- 95111 97259 95086
- 95101 95062
- 95090-49864

MAT PCC
actuators

PIO #	DATE	RCC
CC#4 CONT	SPRING PA 532 440-1 " NSN 5360003792469 wrong size spring causes damage to gear & gear shaft \$180. 5-9	MATPCC
CC#5	<p>PCN 30033A PN 54552 Routed from CSD shop & PCN 34107A PN 54552 from supply require a thermo test in oil. The operator places the switch in oil at 275° to 300° then waits 35 to 45 minutes until switch turns on between 330° to 350°. The heater is turned off and again the operator waits 90 to 15 minutes until the switch turns off. must be 300°. If there is a doubt on either limit the switch is again run through the cycle.</p> <p>On a good day the operator can test 9 cables. On a bad one only three or four.</p> <p>The equipment P92418 was made here. It contains 6 qts of oil that must be heated & allowed to cool. It also uses pannal light to signal on & off.</p> <p>Suggested improvements: 1) reduce size of oil container to 1 qt or less. 2) attach "on" light to buzzer 3) develop equipment so that multiple cables could be tested during cycle.</p> <p>Savings: reducing waiting is reduced by $\frac{1}{2}$ = .4 hr/unit or 87 hr/year.</p> <p>30033A - 20/quarter - 80/yr 34107A - 301 " " " " " "</p>	

PIO #	DATE	NOTES	RCC
CC6 AF		Motors ^(defective) removed from some actuators are considered exchange. No repair allowed. The motor has to be removed and ready to turn in before new one can be ordered. This causes flow delay. PCN = 95931A, 95044A, 49851A	MATPCC
CC7 FS	5-10	test equip is old, out dated, specific OC 4863 leak oil - no replacement parts are available. PCN 34549A - sched said wcd deleted - may be obsolete - check	
CC#8 FS	5-11 PARTS	Parts are ordered by operator filling out form for each part. They are picked up, turned in to MIC, parts are pulled then delivered to operator. (actuator area) when full kits were replaced by mini kits parts were included that did not need replacing and parts that were needed were not included. OPERATORS must fill out a card for each part required. Cards turned in, parts pulled, then delivered to operator.	
		PCN 38666A, 38664A - when motor tests bad it must be replaced <u>not</u> repaired yet replacement motor often needs repairing. WCD is incorrect. unit has high rejection rate. Tested after assy to	

PIO

NOTES

RCC

5-12

PCN 35096A - Yaw-Damper Servo actuator is damaged by washing the Tail. Operator stated that units had to be totally reworked.

5-18

MATPCC has a sub-unit - the battery shop - it is located in a separate building just outside of 3001. It employs four w/o-O's. It is their responsibility to charge batteries for all departments of OC-ALC as well as for aircraft from the base. Certain aircraft batteries must be checked & charged at preset intervals others only as required. They also keep some aircraft batteries charged and ready for use by an aircraft passing through.

5-18

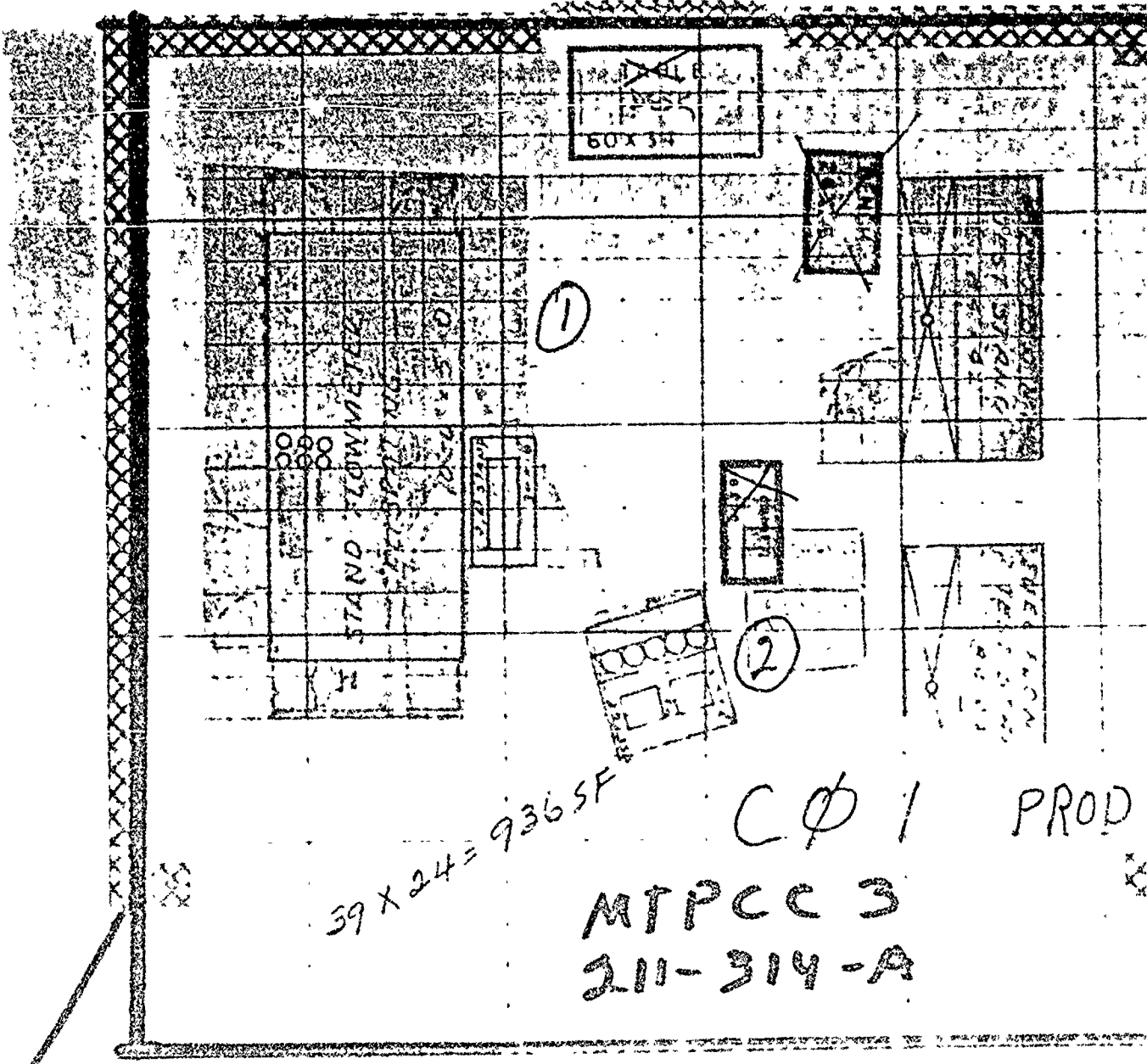
The fuel flow transmitters are tested in Bld 3108. It is located just outside of 3001. All fuel related test equipment is located in this building. MATPCC's five test stands are old and are in the process of being replaced by two new test stands. The operators (two) were knowledgeable about the new test stands. They had been

DATE PIO #	PIO SUBJECT & SUPPORTING DATA	RCC
4-28	PROBLEM WITH VENDER PART GEMPLATE ASSY - #405-025-001 20 to 30% BAD PARTS - LBS UNEVEN LOST TIME .2HR	MATPC Mac CREIGHT OPERATOR
4-28	JG. FUEL FLOW TRANSMITTER GOES TO PAINT - NOT CALLED FOR IN WOD.	MATPC
5-1 ↓ 5-8	WEATHER IS COOL YET AIR CONDITION SYSTEM IS RUNNING. CAUSES AN UNCOMFORTABLE WORKING CONDITION + EXTRA UTILITY	
5-2 7-1	48451 & 45387 ARE REJECTED AFTER TEST ≈ 80%. 50% W/ CALIBRATE TEST, 30% to CHANGE MAGNET.	
5-2	OPERATORS TAKE TURNS GOING TO "BARN", UNCRATING, LOADING ON CART, MOVING to CC AREA, AND PLACING ON SHELF. "BARN" IS ABOUT A BLOCK FROM 3001. TASK REQUIRES ABOUT 2 HRS FOR HALF QUARTERS SUPPLY	
5-2 CC#1	SUGGESTION # OC 861138 - BY Mac McCREIGHT HAS BEEN APPROVED FOR 18 MONTHS YET HAS NOT BEEN IMPLEMENTED. CURRENT METHOD - WORN IMPELERS ARE DISCHARTED & REPLACED W/ NEW. COST \$400. SUGGESTED METHOD: DRILL & SLEEVE WORN IMPELARS WITH STAINLESS STL COST ? (ON SILVER GULLS)	

PIO #	DATE	NOTES	RCC
		<p>consulted on what was needed, both for safety and function. one of the operators had 5 years experience as test operator, the other about six months. It has been the practice to rotate the fuel flow operators to fill one of the test operator positions.</p>	

(A)

(B)



39 X 24 = 936 SF

CØ 1

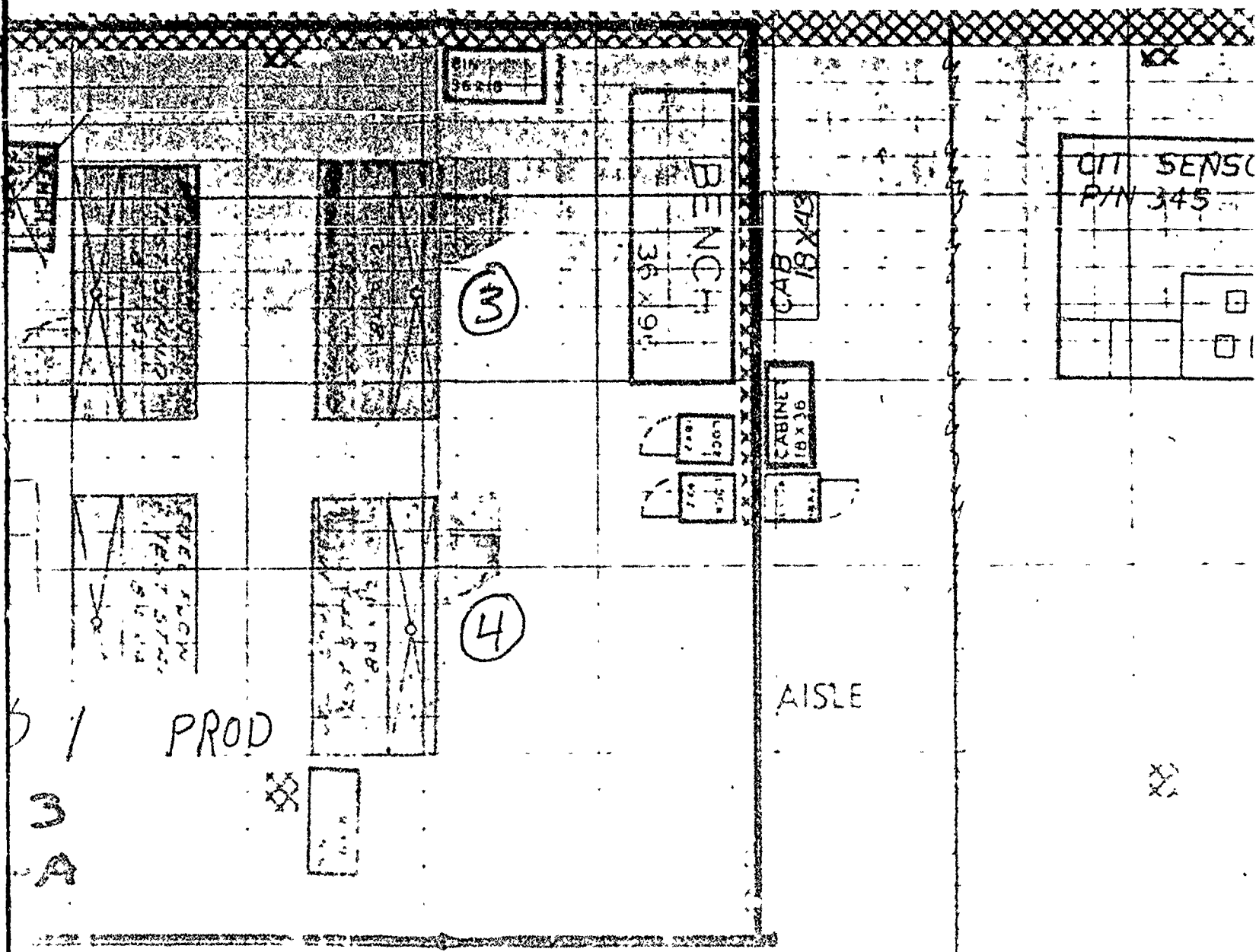
PROD

MTPCC 3

211-314-A

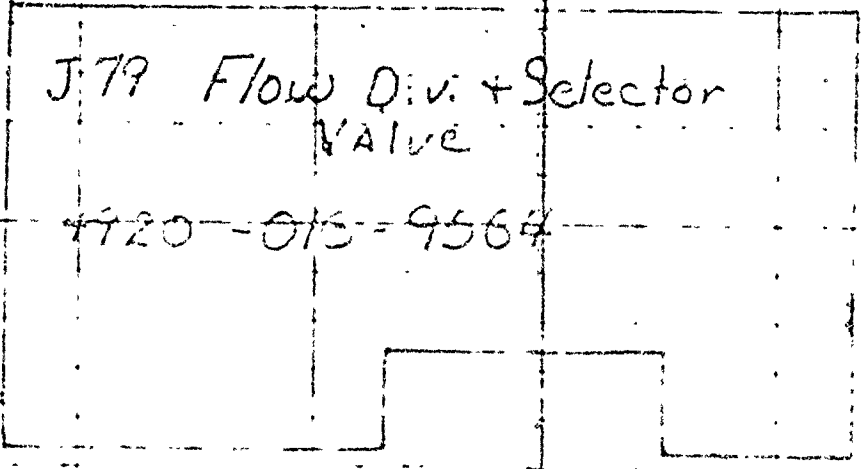
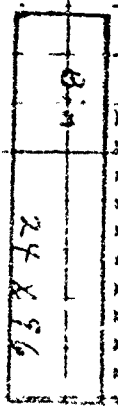
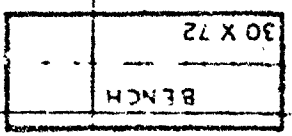
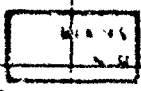
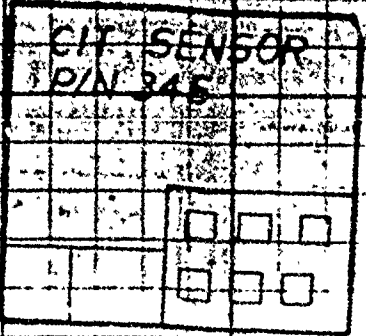
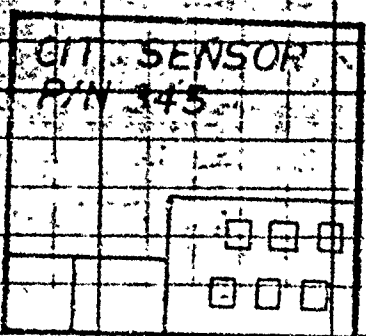
(B)

(C)

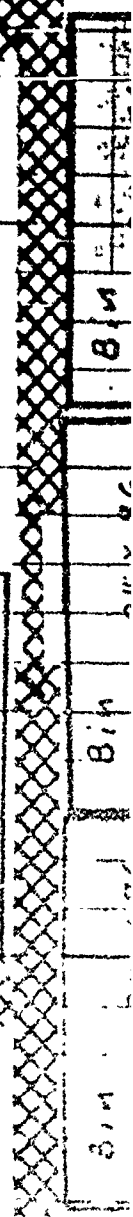


(C)

(D)

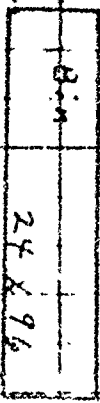
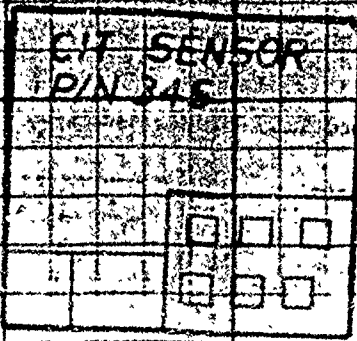


aisle



(D)

(15)

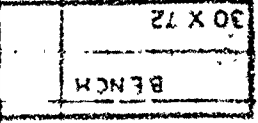


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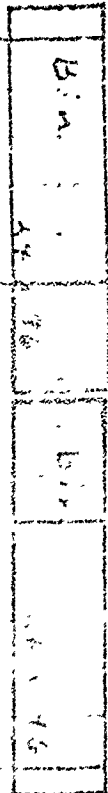
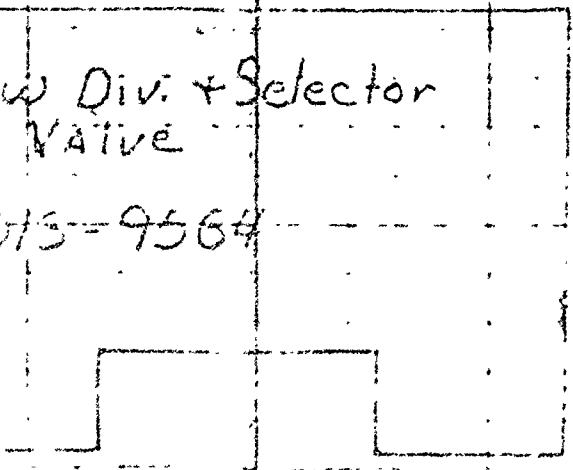
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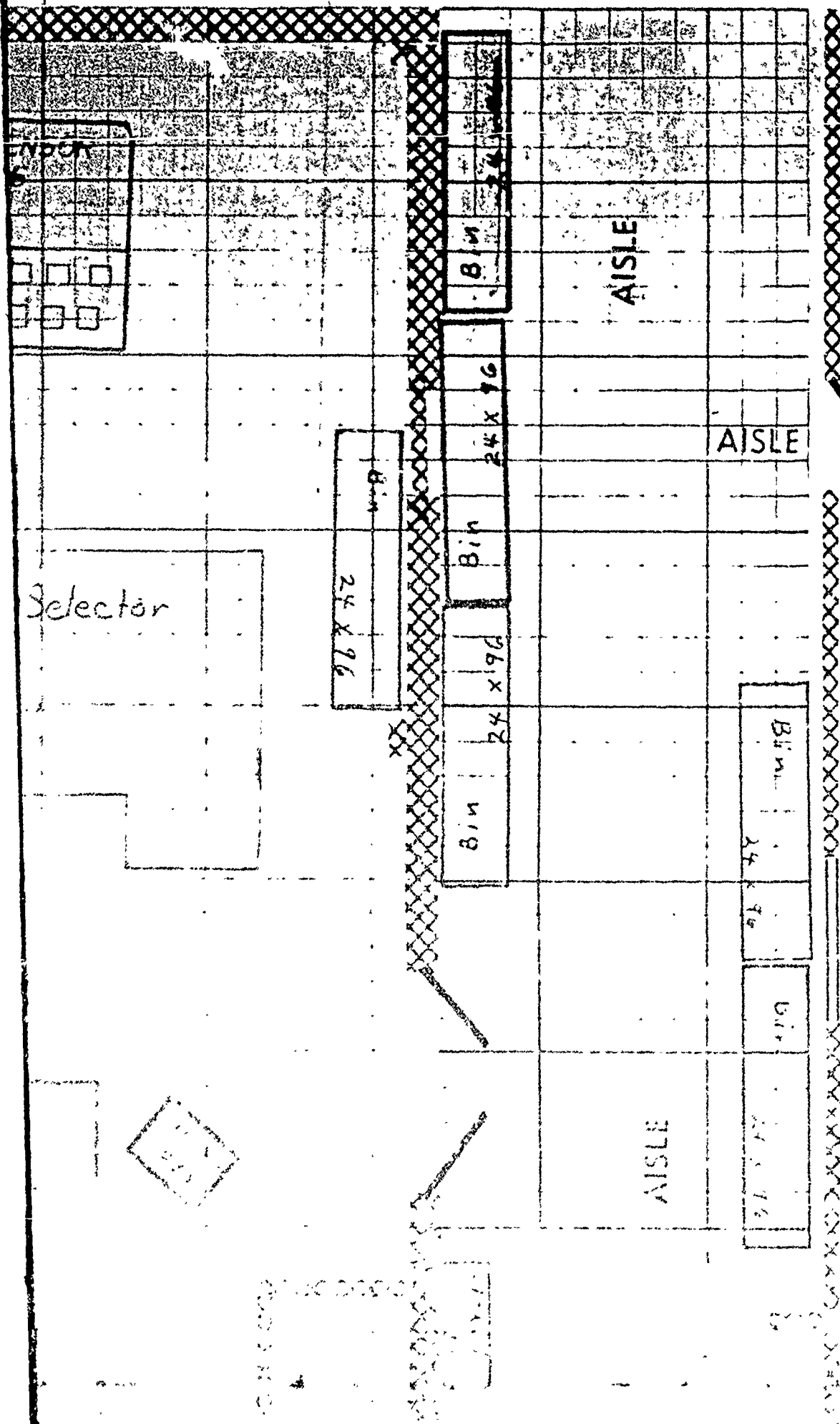


low Div. + Selector Valve

313-9564



(14)



15

3

WAT LCG
DJA - 90
DJA - 90

14



PRODUCTION 936 SF MTPCC

~~██████████~~
15 Aug 1986 M.S.H.

~~1 JUN 1984~~

7

TINKER AFB BLDG 3108

~~13 SEP 1985~~ *add*

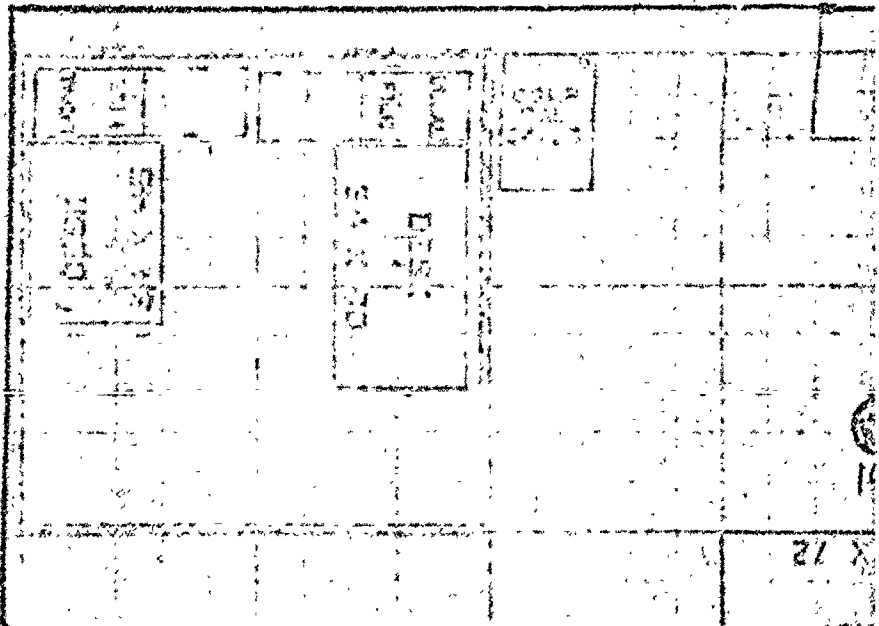
43

OH

aisle

SUPPORT 720 SF

PH



ENTR	FR	21/2	13/2
10	20	10	10

12
10

ICE BOX

28 X 44

STEAM HEATED
HOT WATER SYS

28 X 71

36 X 96

BENCH

36 X 96

30 X 50

CLASS
INSTRUMENTS
TABLES

400
VALVES

BENCH

21 X 55

16 X 72

BENCH

36 X 72

BENCH

LUBE AND
SLAVE OIL
PUMP

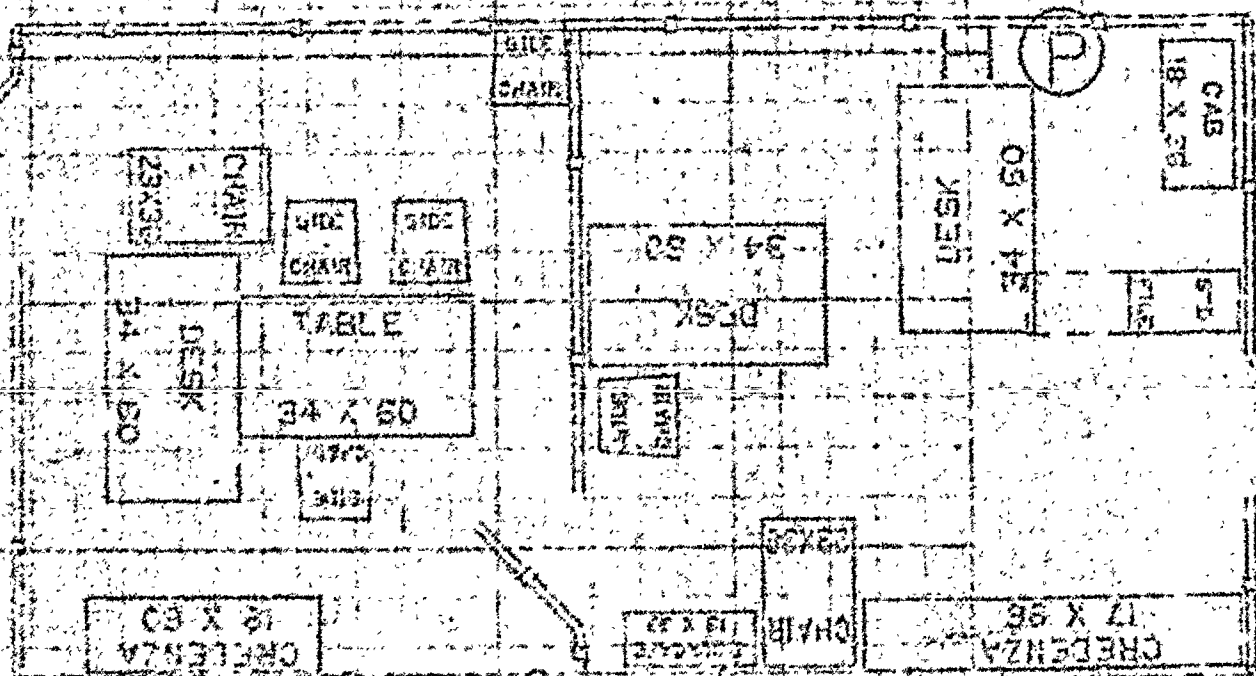
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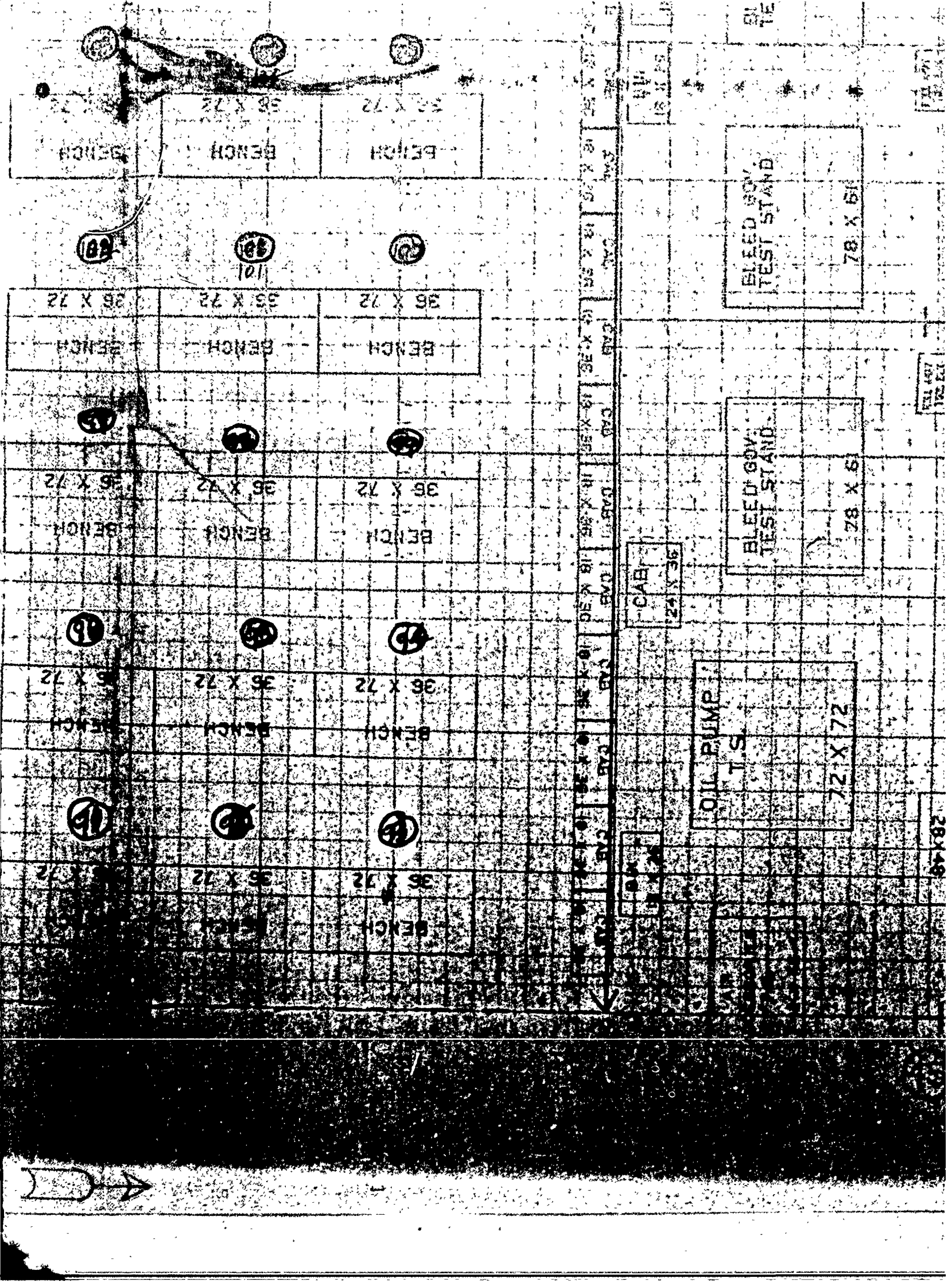
TABLE
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TABLE

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 103

BENCH 36 X 72 BENCH 36 X 72 BENCH 36 X 72

104
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 106

BENCH 36 X 72 BENCH 36 X 72 BENCH 36 X 72

107
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BENCH 36 X 72 BENCH 36 X 72 BENCH 36 X 72

110
 111
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BENCH 36 X 72 BENCH 36 X 72 BENCH 36 X 72

CAB 24 X 36

CAB 36 X 72

CAB 36 X 72

BLEED GOV. TEST STAND 78 X 61

BLEED GOV. TEST STAND 78 X 61

OIL PUMP T.S. 72 X 27

BLEED GOV. TEST STAND
78 X 81

BLEED GOV. TEST STAND
78 X 81

OIL PUMP T.S.
72 X 72

TABLE
20 X 40

WATER DISTRIBUTION SYSTEM COMPONENTS T.S.
77 X 105

LUBE ACCESSORIES T.S.
89 X 119

LUBE ACCESSORIES T.S.
89 X 119

TABLE
30 X 40

DESK
60 X 48

CAB
18 X 36

BIN
18 X 36

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18 X 36

STO
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18 X 36

CAB
24 X 36

CAB
18 X 36

DESK
34 X 50

DESK
34 X 50

TABLE
20 X 40

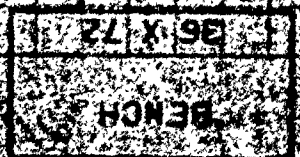
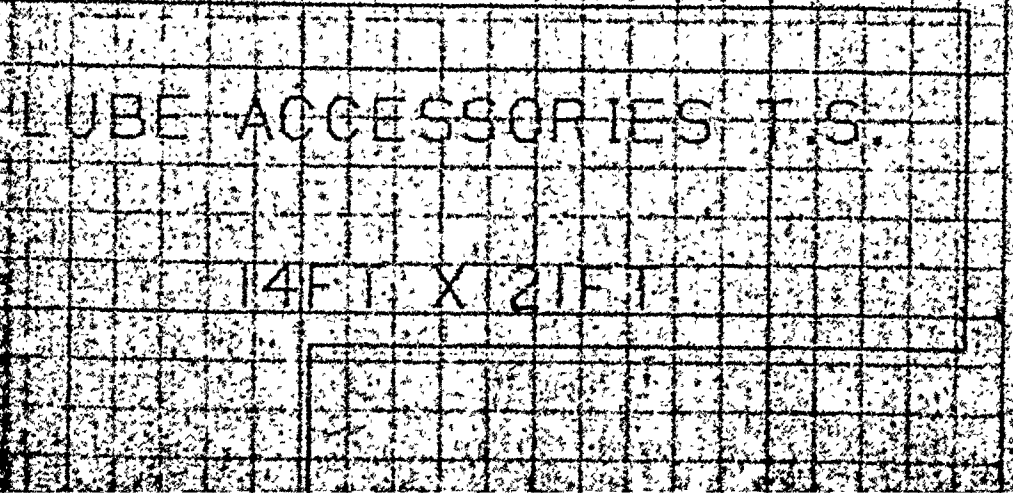
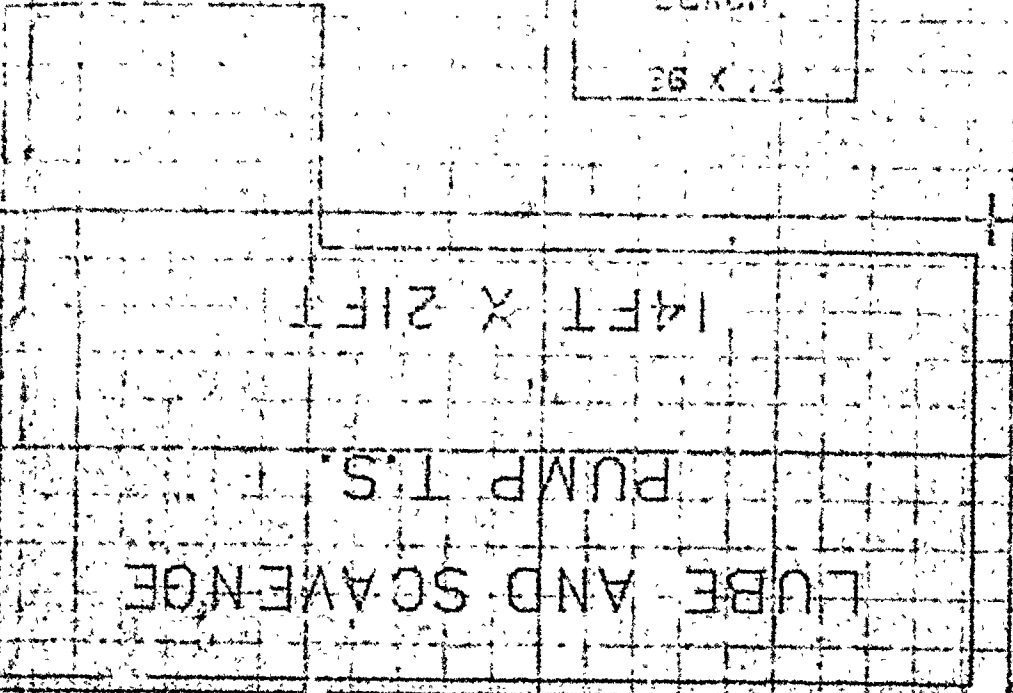
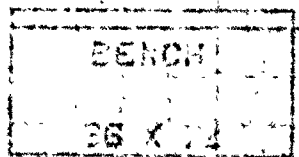
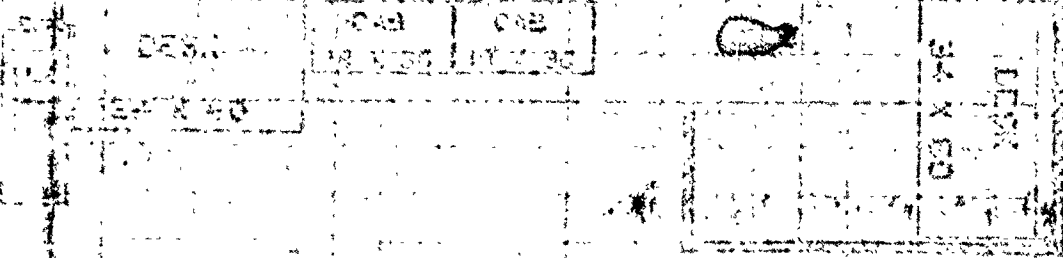
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36 X 95 BENCH

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9
PARTIAL
CLEANER
24 X 44

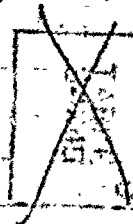
WATER INJECTION PUMP
WATER PANEL
5 FT X 20 FT

CØ 2
PRODUCTION

200 SF

WATERPUMP
PANEL
24 X 108

TEST BENCH
30 X 60



36 X 55
MACHINE

36 X 72
BENCH

STD
FILE
BOOKCASE
18 X 30

TABLE
SEDS

36 X 55 BENCH

36 X 72 BENCH

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36 X 72 BENCH

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36 X 72 BENCH

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81

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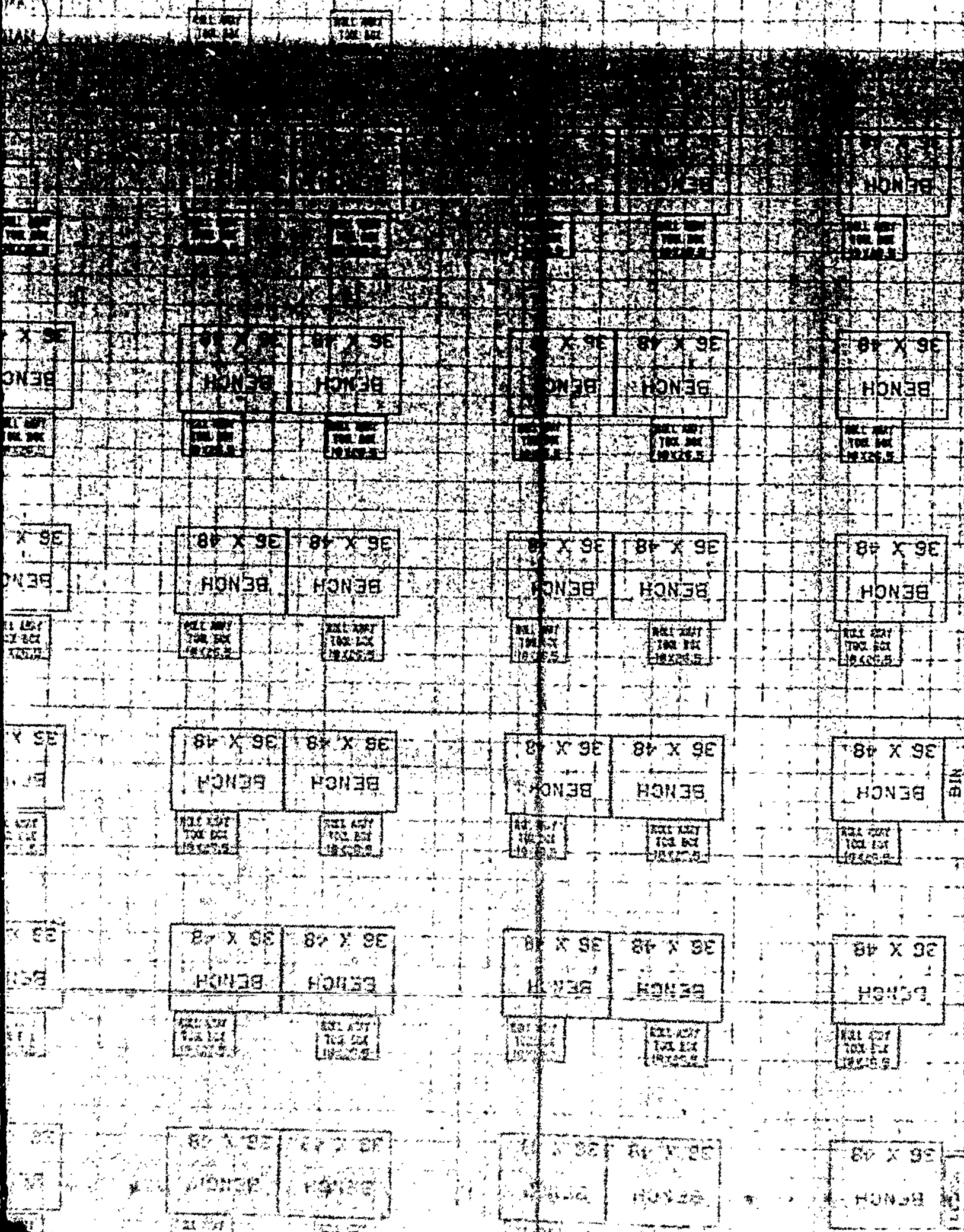
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IT

VACUUM PUMP

6 FT X 16 FT

36 X 81 9E X 81 9E X 81 9E X 81 9E X 81
LOCKER LOCKER LOCKER LOCKER

CAR 12 X 35
CAB 18 X 35
CAB 18 X 35
CAB 18 X 35

PRESET
STAT ON
72 X 149

TEMPERATURE
SINUSOID

BENCH
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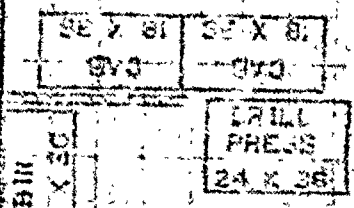
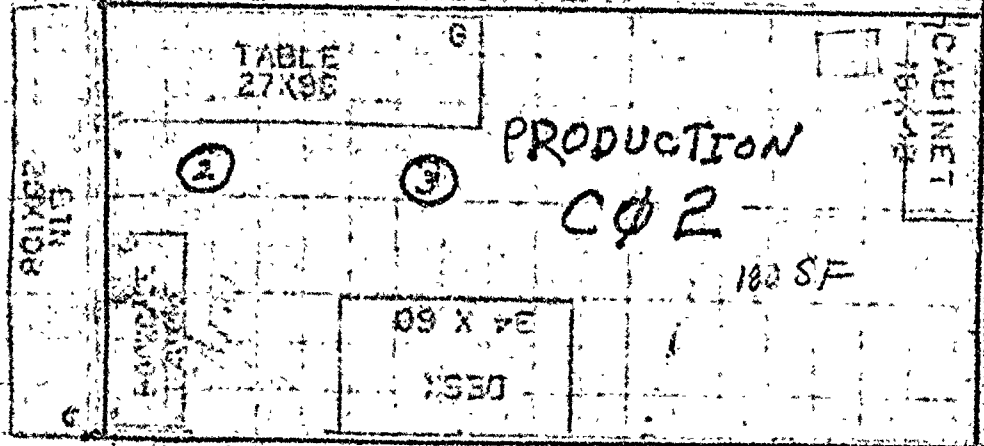
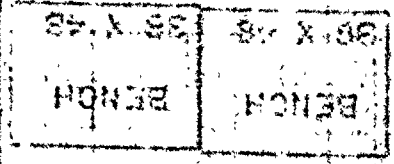
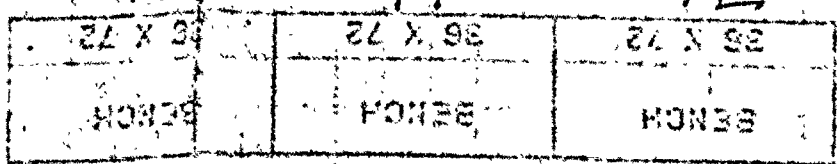
BIN
18 X 36

36 X 48

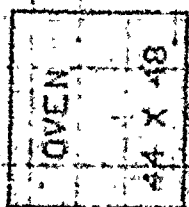
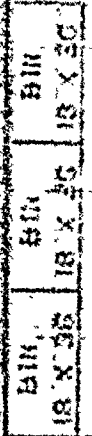
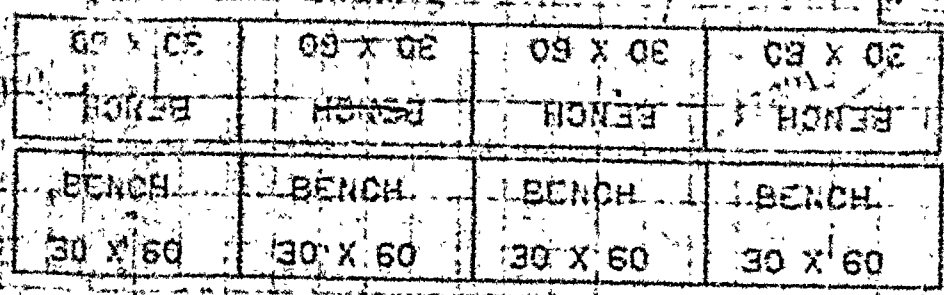
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71

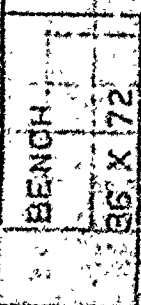
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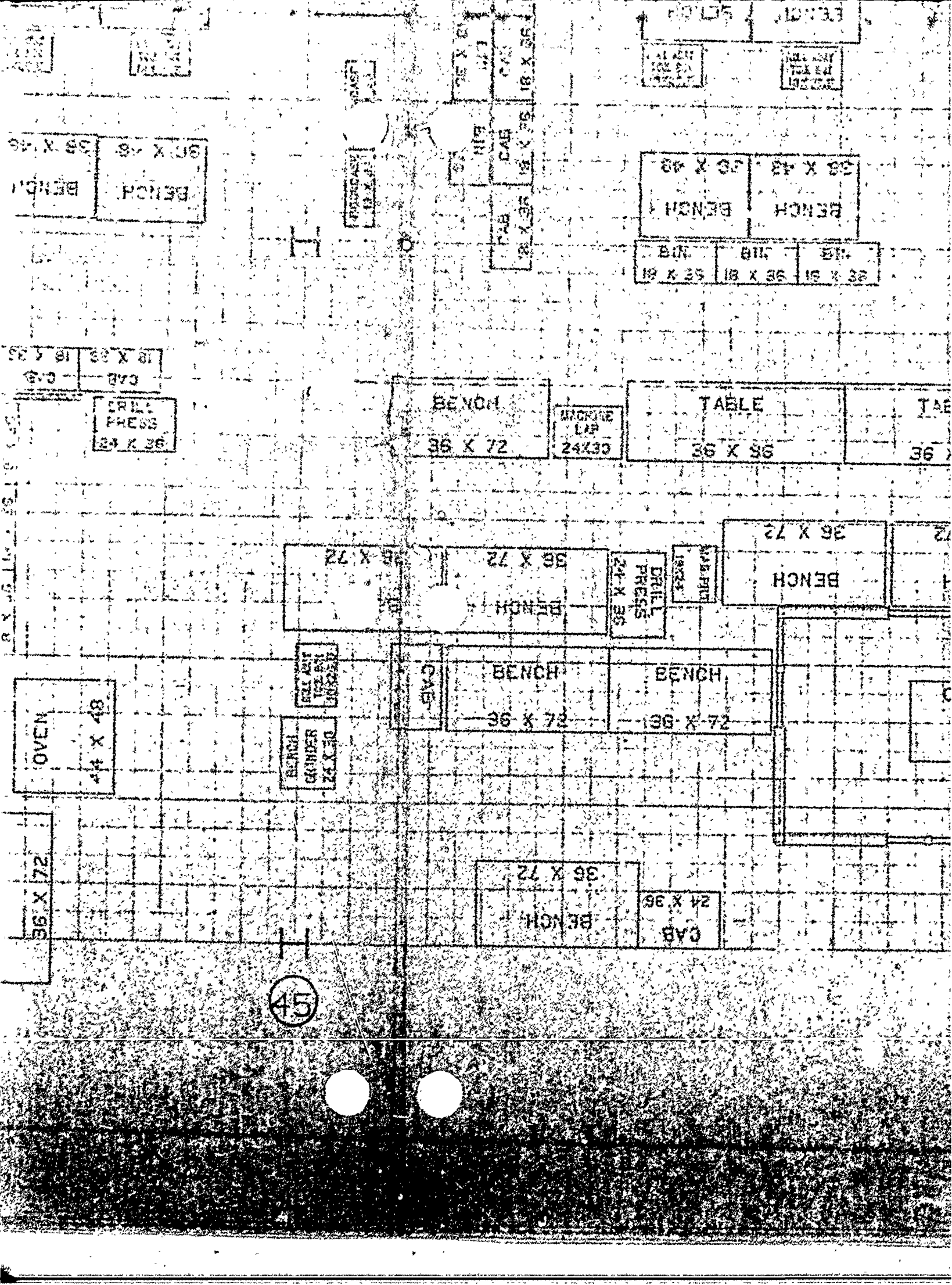
CØ1



PRODUCTION
 $48 \times 75 = 3600 \text{ SF}$



X X X X X



BENCH 36 X 48
BENCH 36 X 48

BENCH 36 X 48
BENCH 36 X 48
36 X 36
36 X 36
36 X 36

36 X 36
36 X 36
36 X 36

36 X 72
36 X 72
TABLE 36 X 36
36 X 36

36 X 72
BENCH 36 X 72
DRILL PRESS 24 X 36
CAB 24 X 36
36 X 72

OVEN 48 X 48

BENCH 36 X 72
BENCH 36 X 72
CAB 24 X 36

36 X 72
BENCH 36 X 72
CAB 24 X 36

45

DRILL PRESS 24 X 36 CAB 36 X 72 BENCH 36 X 96 BENCH 36 X 96

BENCH 36 X 48 BENCH 36 X 48

BENCH 36 X 48 BENCH 36 X 48

BENCH 36 X 48 BENCH 36 X 48

BIN 36 X 36 BIN 36 X 36 BIN 36 X 36

CAB 36 X 36 CAB 36 X 36 CAB 36 X 36

CAB 36 X 36 CAB 36 X 36 CAB 36 X 36

TABLE 36 X 96 TABLE 36 X 96

BIN 36 X 36 BIN 36 X 36 BIN 36 X 36

BENCH 36 X 72 BENCH 36 X 72

BIN 18 X 36 BIN 18 X 36 BIN 18 X 36 BIN 18 X 36 BIN 18 X 36 BIN 18 X 36

36 X 36 36 X 36 36 X 36 36 X 36 36 X 36 36 X 36

TABLE 30 X 48

BENCH 36 X 96 BENCH 36 X 96

BENCH 36 X 72

DESK 34 X 60

CAB 24 X 36

18 X 36 18 X 36 18 X 36 18 X 36 18 X 36 18 X 36

